

DONALD R. VAN DER VAART

SHEILA C. HOLMAN

MM DD, 2016

Tom Ouesenberry Regional Manufacturing Director Arauco Panels USA LLC 985 Corinth Rd. Moncure, North Carolina 27559

Dear Mr. Quesenberry:

SUBJECT: Air Quality Permit No. 03449T45

> **Facility ID: 1900015 Arauco Panels USA LLC** Moncure, North Carolina

Chatham County Fee Class: Title V **PSD Status: Major**

In accordance with your completed Air Quality Permit Applications for the renewal and modification of the Title V permit received on November 03, 2008, May 14, 2012 and January 29, 2016, we are forwarding herewith Air Quality Permit No. 03449T45 to Arauco Panels USA LLC, 985 Corinth Road, Moncure, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 02Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

Tom Quesenberry MM DD, YYYY Page 2

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Chatham County has triggered increment tracking under PSD for PM₁₀, SO₂ and NO_x. However, this permit modification and renewal does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from MM DD, YYYY until MM DD, YYYY is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein. Should you have any questions concerning this matter, please contact Joseph Voelker, P.E. at (919) 707-8730.

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section, Division of Air Quality, NCDEQ

Enclosure

cc: Heather Ceron, EPA Region 4
Connie Horne (cover letter only)
Raleigh Regional Office
Central Files

ATTACHMENT to cover letter to Permit No. 03449T45

Insignificant Activities per 15A NCAC 02Q .0503(8)

Emission Source ID No.	Emission Source Description		
I-VENTS	Roof ventilators		
I-GAS	One 500 gallons above ground gasoline storage tank		
I-TANK1, I-TANK2, I-TANK3, I- TANK4	Four, 1000 gallons each, above ground propane storage tanks		
I-LPA	Log Processing Area		
MDFR-1, MDFR-2, MDFR-3, MDFR-4	Four MDF Resin Storage Tanks		
DFP-1, MACT ZZZZ, NSPS IIII	Diesel fuel -fired Fire Pump Engine (347 Brake Horsepower output)		
ES-ODG,MACT ZZZZ	Diesel-fuel Fired Emergency Generator (465 horsepower, 3,026 million Btu per hour heat input)		

- 1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
- 2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 02D .1100 "Control of Toxic Air Pollutants" or 02Q .0711 "Emission Rates Requiring a Permit".
- 3. For additional information regarding the applicability of MACT see the DAQ page titled "The Regulatory Guide for Insignificant Activities/Permits Exempt Activities". The link to this site is as follows: http://daq.state.nc.us/permits/insig/

ATTACHMENT to cover letter to Air Quality Permit No. 03449<mark>T45</mark>

Table of Changes

Existing Condition No.	New Condition No.	Changes		
Cover Letter	Same	Updated permit revision numbers, issue and effective dates, etc.		
Insignificant activities list	Same	 Added the 4 MDF resin tanks formerly in Section 2.1.G Added the 347 BHP fire pump (DFP-1) formerly in Section 2.1.H. 		
Permit, page 1	Same	Revised dates, permit numbers, etc.		
Section 1 Permitted Equipment List	Same	 Removed all footnotes relating to satisfied permit application submitted requirement Removed reference to the PGTs at the MDF plant Added reference to the biofilter at the MDF plant Renumbered existing venturi scrubbers Revised descriptor for ES-06-B from MDF Board Cooler to MDF Board Cooler and Press Hall For ES-16(the MDF Press), removed reference to scrubber CD16. With the reconfiguration of the exhaust of CD 16 from the biofilter to the mixing chamber which is routed to the energy systems combustion air intake or to the dryers, the second content of the second content of the energy systems combustion air intake or to the dryers, the second content of the energy systems combustion air intake or to the dryers, the second content of the energy systems combustion air intake or to the dryers, the second content of the energy systems combustion air intake or to the dryers, the second content of the energy systems combustion air intake or to the dryers, the second content of the energy systems combustion air intake or to the dryers. 		
Global	Same	 scrubber no longer acts as an air emissions control device. Reference was added to CD02 and CD14, which will exhaust to the biofilter CD18 once installed. Updated regulation references from "2D" and "2Q" to "02D" and "02Q" to be consistent with regulation nomenclature. 		
Global	Same	 In all "standard" testing conditions, the language was simplified to read: Testing [15A NCAC 02Q .0508(f)] X. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section XYZ above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .XYZ. General Condition JJ addresses all the testing requirements pursuant to 15A NCAC 02D .2600. 		
Global	Same	 Removed reference to specific equipment ID numbers in various permit conditions when it was clear and unambiguous by context which equipment was being addressed. 		
Global	Same	■ Removed reference to all 02D .1100 conditions from the permit		
2.1.A	Same	Material Handling Sources		
		■ Revised equipment listing into table form		
1.a.	Same	 Revised applicable regulations table to include 02D .1111 Revised 02D .0521 condition language to be consistent with current shell language. No changes in intent were made 		
2.1.B.	Same	■ Controlled material handling sources		
2.c.	Same	 Removed the following language as it is no longer necessary The Permittee shall establish normal for the source within 30 days of initial startup 		
2.1.C.	Same	 MDF HAP-emitting process sources 		

Existing Condition No.	New Condition No.	Changes
		 Revised Table 2.1C to remove reference to the PGT systems, include the new biofilter (ID No.CD18), revised the emission points and revised the existing venturi scrubbers ID Nos. at the request of the Permittee. For ES-16(the MDF Press), removed reference to scrubber CD16. With the reconfiguration of the exhaust of CD 16 from the biofilter to the mixing chamber which is routed to the energy systems combustion air intake or to the dryers, the scrubber no longer acts as an air emissions control device. Reference was added to CD02 and CD14, which will exhaust to the biofilter CD18 once installed.
1.	Same	■ 02D .0515 condition
		Given the change in configuration and the unknown duration until the biofilter is installed and operational, the following language was added:
c.	Same	 Upon installation of the biofilter (ID No. CD18), the Permittee need only test the outlet of the biofilter if desired.
f.	Same	 Removed the language describing administrative revision of the monitoring parameters and replaced it with the following: If the Permittee revaluates compliance with the emission limit in condition a. at parameter ranges outside of those in Table 2.1.C.1.f. below, the Permittee shall, upon approval by the DAQ, attach the approval memo containing the revised operating parameters to this permit and maintain the parameters in the associated operating ranges contained therein.
		 Removed parameters for CD16 as it no longer acts as an air pollution control device
2.1.C.2	same	02D .0521 condition
c.	same	 Removed reference to emission point EP16 as it no longer exists. The scrubber (CD16) outlet has been routed to a mixing chamber which is ultimately routed to the combustion zone of the energy system which will ultimately be controlled by the biofilter. Added a requirement to re-establish "normal "upon installation of the biofilter, at which point readings will be conducted at the outlet of the biofilter (emission point EP18)
NA	4	Added 02D .0614 (CAM) condition
2.1.D.	Same	Three natural gas fired oil heaters Three natural gas fired oil heaters
4.b.	NA	 Revised equipment listing into table form This initial start-up notification requirement has been met and was removed from the permit
4.c.	4.b.	Simple renumbering
5.a	Same	■ Added 112(j) "sunset" language
Na	6	Added MACT DDDDD condition with compliance date of May 20, 2019
2.1.E.	Same	 Particleboard mill operations Put affected equipment into tabular form Created two tables; one for the combustion sources and dryers; one for the PM (primarily) sources which are mainly woodworking operations Renumbered conditions to reflect the removal of existing conditions 1 and 8
1.	NA	 Removed 02D .0504 condition as it applies only to installations in which wood is burned for the primary purpose of producing heat or power by indirect heat transfer.
2.1.E.2	Same	02D .0512 condition
.b.	Same.	 Removed reference to each specific piece of equipment and included reference to affected source table
2.e.	Same	 Removed reference to each specific piece of equipment and included reference to affected source table

Existing Condition No.	New Condition No.	Changes	
2.1.E.3	Same	02D .0515 condition	
a, c	same	 Removed reference to each specific piece of equipment and included reference to affected source table 	
2.1.E.4	Same	02D .0516 condition	
a.	Same	 Removed reference to each specific piece of equipment and included reference to affected source table 	
2.1.E.5	Same	02D.0521 condition renumbered	
a.	Same	• Revised format to be consistent with current permit shell standard. No substantive changes were made.	
С	Same	■ Removed the following language as the requirement has been satisfied. The Permittee shall establish normal for the emission sources controlled by the scrubber (ID No. CD-PB-PGT) within the first 30 days of the initial startup of the scrubber (ID No. CD-PB-PGT) following the effective date of air permit no. 03449T39. The Permittee shall re-establish normal for the emission sources ES-3515 and ES-3545 within the first 30 days of their initial startup following the effective date of air permit no. 03449T41	
2.1.E.6	same	02D.0530 condition	
6.c	Same	• Revised testing requirement for dryer 1410. 1410 has not been started up since the testing requirement was added in permit no. T31.	
6.d.	Same	 Removed reference to each specific piece of equipment and included reference to affected source table 	
e, f, g	e	Combined conditions as they are identical	
h	f	 Simple renumbering Revised voltage and current monitoring parameters. These parameters were those used during the compliance testing conducted in 2009. Added water injection rate as a monitoring parameter Added paragraph iv., which establishes a procedure for the Permittee to establish now providing parameters without modificing the parameter. 	
i, j, k l	i	new operating parameters without modifying the permit Combined conditions as they are identical	
m	Same	Removed reference to each specific piece of equipment and included reference to affected source table	
o, u, z, dd	b	Consolidated testing requirements into one condition	
p, v, aa	c	Consolidated testing requirements into one condition	
q, w, bb	g	Consolidated into one monitoring requirement	
r, w, bb	i	Consolidated into one monitoring requirement	
s, y, cc	m	Consolidated into one reporting requirement	
t, y, cc	n	Consolidated into one reporting requirement	
х.	NA	 Condition was removed as the requirement has been satisfied 	
ee	h	■ Simple renumbering	
ff	0	■ Simple renumbering	
gg	k	Simple renumbering	
hh	1	■ Simple renumbering	
ii	p	■ Simple renumbering	
2.1.E.7.	Same	■ 02D .0614 (40CFR 64) CAM condition PM CAM requirements were substantially revised to be consistent with current DAQ requirements	
8	NA	Removed 02D .1100 condition	
2.1.E.10	2.1.E.1	Renumbered the 02D .0504 condition	
2.1.E.10 2.1.E.11	NA	Removed the notification requirement as it was satisfied on 09/18/2014	
2.1.E.11 2.1.F.	Same	Laminator Mill	
2.1.1.	Sumo	Removed reference to No. 2 fuel oil fired for the hot oil heater (Pr-Heat1)	
1.a.	Same	Removed reference to No. 2 fuel oil and used oil	
3.c.	Same	Removed reference to No. 2 fuel oil	
4.c.	Same	• Removed reference to hot oil heater Pr-Heat1. This source no longer has a weekly VE requirement.	

Existing Condition No.	New Condition No.	Changes		
5.a.	Same	■ Added 112(j) "sunset" language		
NA	6	 Added MACT DDDDD condition with compliance date of May 20, 2019 		
2.1.G.	NA	■ The 4 MDF resin tanks were moved to the insignificant activities list		
		•		
2.1.H.	NA	■ The 347 BHP fire pump (DFP-1) was moved to the insignificant activities list		
2.1.I		■ The 465 BHP emergency generator (ES-ODG) was moved to the insignificant activities list		
4.	NA	■ Removed 02D .1100 condition		
5.	NA	■ The 02D .1111 (MACT ZZZZ) condition for ES-ODG was removed from the permit		
2.2	Same	Multiple Source requirements		
2.		Removed 02D .1100/02Q 0705 condition		
3	2	■ Simple renumbering of the 02D .1806 condition		
4	3	02D .1111 (MACT Subpart DDDD) condition		
NA	a.i.	 Added a permit application requirement to include monitoring parameters for the biofilter. The application will be required to be submitted with the Notification of Compliance Status. 		
2.2.B.	Same	MDF plant		
1.	Same	02Q .0317 PSD avoidance condition		
b	same	 Added testing requirement after the installation of the biofilter. 		
c.	Same	 The term "minimum" was added to the urea injection rate requirement The following language was removed "This injection rate may be revised administratively pending DAQ review" 		
e	Same	 The following language was removed "These emission factors may be revised administratively pending DAQ review. If subsequent data suggests that any of the emission factors underestimate emissions, the Permittee shall submit a permit application to revise the emission factors in question" The following language was added: "If the Permittee conducts source testing such that the NOx emission factor listed in Table 2.2.B.1 was revaluated at a different injection rate or urea concentration, the Permittee shall, upon approval by the DAQ, attach the approval memo containing the revised operating parameters to this permit and maintain the parameters in the associated operating ranges contained therein." 		
Section 3 – General Conditions	Same	 Section was revised from v.3.6 to current shell version 4.0 (12/17/2015). Only minor changes were made. Changes include: Updating regulation references from "2D" and "2Q" to "02D" and "02Q" to be consistent with regulation nomenclature. References to DENR were revised to DEQ 		



State of North Carolina Department of Environmental Quality Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
03449T45	03449T44	MM DD, YYYY	MM DD, YYYY

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 02D and 02Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 02Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: Arauco Panels USA LLC

Facility ID: 1900015

Facility Site Location: 985 Corinth Road

City, County, State, Zip: Moncure, Chatham County, North Carolina 27559

Mailing Address: 985 Corinth Road

City, County, State, Zip: Moncure, Chatham County, North Carolina 27559

Application Number: 1900015.08D, 1900015.12C, 190015.16A

Complete Application Dates: November 03, 2008, May 14, 2012 and January 29, 2016

Primary SIC Codes: 2493

Division of Air Quality, Raleigh Regional Office

Regional Office Address: 3800 Barrett Drive, Suite 101

Raleigh, North Carolina 27609

Permit issued this the DDth of MM, YYYY

William D. Willets, P.E., Chief, Permitting Section By Authority of the Environmental Management Commission

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SECTION 1 - PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Emission Source	Emission Source Description	Control Device	Control Device Description			
ID No.		ID No.				
	Material Handling Sources					
7001 or SP-1	Truck/Rail Chip Handling System,	N/A	N/A			
MACT DDDD	Enclosed					
7004 or SP-2	Truck/Rail Sawdust Handling	N/A	N/A			
MACT DDDD	System, Enclosed					
7010	Particle Board Mill Truck Dump	N/A	N/A			
MACT DDDD						
7012, 7014,	Dump bunkers and CL dryer dump	N/A	N/A			
7015, 7029						
MACT DDDD	W 1 1 1 1	37/4	77/4			
7052, 7054,	Wood residue bunkers	N/A	N/A			
7055, 7056						
MACT DDDD 6001, 7002-A,	Wasdahin silas Madissa Dansita	N/A	N/A			
7002-B, 7002-C,	Wood chip piles - Medium Density Fiberboard Mill	IN/A	N/A			
7002-B, 7002-C, 7002-D	1 Toer to ard Tvilli					
MACT DDDD						
6003, 7006,	Wood Fuel Pad and Boiler Transfers	N/A	N/A			
7007, 7022	Wood ruch ad and Boner Transfers	10/11	17/11			
MACT DDDD						
7005-D, 7005-E,	Sawdust transport to A-frame	N/A	N/A			
7005-F, 7005-G	Su weast transport to 11 frame	1,111	1,11			
MACT DDDD						
7025	Scale transfer conveyors	N/A	N/A			
MACT DDDD						
7019, 7026	Fiber dump and reject filter bins	N/A	N/A			
MACT DDDD						
7027	Hog fuel hopper	N/A	N/A			
MACT DDDD						
7040, 7044, 7046,	Particleboard Mill chip transfer	N/A	N/A			
7048, 7050						
MACT DDDD	F 18 1 1 16:1 2 7:1	27/4	N/4			
SP MA CTE DDDD	Fuel Sawdust and Chip Storage Piles	N/A	N/A			
MACT DDDD	Deviation 1 Miles 112	NT/A	NT/A			
7024 MACT DDDD	Particleboard Mill feed bins	N/A	N/A			
MACT DDDD	THE TO SECURE	1 177 ***	*			
	Medium Density Fiberboard Facilities*					
		1				
ES-01	Refiner	CD01	Refiner Abort Cyclone (66 inches			
MACT DDDD			in diameter) ¹			
		CD02	Venturi scrubber			
		in series with	Di Cil			
		CD18	Biofilter			

¹ For operation during startup, shutdown and malfunction only.

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
		CD14 In series with CD18	Venturi scrubber Biofilter
ES-18, ES-19, and ES-20 NSPS Dc Case-by-Case MACT	Three natural gas-fired hot oil heaters (24 million Btu per hour maximum heat input each)	N/A	N/A
ES-02-A	Energy System consisting of one	CD02-A	Urea/water injection system
MACT DDDD	dry/wet wood/ woodwaste-fired burner (205 million Btu per hour heat input)	CD02 In series with CD18	Venturi scrubber Biofilter
		CD14 In series with CD18	Venturi scrubber Biofilter
ES-02-B and	Two Stage Dryer System	CD02 In series with	Venturi scrubber
ES-02-C and	Two backup natural gas-fired dryer	CD18	Biofilter
ES-02-D	burners (78.5 and 17 million Btu per	CD14	Venturi scrubber
MACT DDDD	hour heat input respectively)	In series with	ventur seraeser
		CD18	Biofilter
ES-16	MDF Press	CD02	Venturi scrubber
MACT DDDD		In series with CD18	Biofilter
		CD14 In series with CD18	Venturi scrubber Biofilter
ES-06-B	MDF Board Cooler and Press Hall	CD02	Venturi scrubber
MACT DDDD		In series with CD18	Biofilter
		CD16 CD14	Venturi scrubber
		In series with	venturi scrubbei
		CD18	Biofilter
ES-03 MACT DDDD	Fiber Sifter System	CD03	Fabric Filter (12,290 square feet of filter area)
ES-04 MACT DDDD	Forming Line Clean-Up System	CD04	Fabric Filter (9,346 square feet of filter area)
ES-05	Mat Reject System	CD05	Fabric Filter (9,346 square feet of
MACT DDDD	That Reject Bystem		filter area)
ES-07 MACT DDDD	Saw System	CD07	Fabric Filter (6793 square feet of filter area)
ES-08	Sander System No.1	CD08	Fabric Filter (12,290 square feet of
MACT DDDD			filter area)
ES-09	Recycled Fiber Silo No.1	CD09	Bin Vent Filter (226 square feet of
MACT DDDD		GD 10	filter area)
ES-10 MACT DDDD	Sander System No. 2	CD10	Fabric Filter (12,290 square feet of filter area)
ES-12	Sander Dust Silo No. 1	CD12	Bin Vent Filter (226 square feet of
MACT DDDD	D 0 1 2"	CD 12	filter area)
ES-13 MACT DDDD	Dry Sawdust Silo	CD13	Bin Vent Filter (226 square feet of filter area)
ES-15	Recycled Fiber Silo No. 2	CD15	Bin Vent Filter (226 square feet of
MACT DDDD			filter area)

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-17 MACT DDDD	Sander Dust Silo No. 2	CD17	Bin Vent Filter (226 square feet of filter area)
MDFR-1, MDFR- 2, MDFR-3, MDFR-4 MACT DDDD	Four MDF resin storage tanks	N/A	N/A
ES-21** MACT ZZZZ	Diesel Fuel-fired Emergency Generator(1592 Brake Horsepower output)	N/A	N/A
	Particlebo	oard Mill	
3501 PSD MACT DDDD	Sawdust Rock and Metal Separator	CD-SC	High efficiency cyclone - 72 inches in diameter
		CD-3501	Reverse flow bag filter with 2,410 square feet of surface area
1430 PSD MACT DDDD	Surface layer triple pass, rotary drum (#3) dryer with one wood suspension dust/natural gas-fired burner (60 million Btu per hour maximum rated	CD-1431	High efficiency multi-cyclone with 2 tubes, each 132 inches in diameter
	heat input)	CD-PB-WESP	Wet electrostatic precipitator
		CD-PB-PGT	Packed bed scrubber with photochemical gas treatment
1420 PSD MACT DDDD	Core layer single pass, rotary drum (#1) dryer with one wood suspension dust/natural gas-fired burner (50	CD-1421	High efficiency multi-cyclone with 4 tubes, each 80 inches in diameter
	million Btu per hour maximum rated heat input)	CD-PB-WESP	Wet electrostatic precipitator
		CD-PB-PGT	Packed bed scrubber with photochemical gas treatment
1410 PSD MACT DDDD	Core layer single pass, rotary drum (#2) dryer with one wood suspension dust/natural gas-fired burner (50	CD-1411	High efficiency multi-cyclone with 4 tubes, each 80 inches in diameter
	million Btu per hour maximum rated heat input)	CD-PB-WESP	Wet electrostatic precipitator
		CD-PB-PGT	Packed bed scrubber with photochemical gas treatment

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
3201 PSD MACT DDDD	One "Wellons" unit operating as a: a) wood suspension dust -fired burner (40 million Btu per hour maximum rated heat input); or a	CD-1431 AND/OR	High efficiency multi-cyclone with 2 tubes, each 132 inches in diameter
	b) natural gas-fired burner (21.8 million Btu per hour maximum rated heat input);	CD-1421 AND/OR	High efficiency multi-cyclone with 4 tubes, each 80 inches in diameter
	exhausting to either surface layer triple pass, rotary drum (#3) dryer [ID No. 1430] and/or	CD-1411, AND	High efficiency multi-cyclone with 4 tubes, each 80 inches in diameter
	core layer single pass, rotary drum (#1) dryer [ID No. 1420] and/or	CD-PB-WESP CD-PB-PGT	Wet electrostatic precipitator Packed bed scrubber with photochemical gas treatment
3201	core layer single pass, rotary drum (#2) dryer [ID No. 1410] One "Wellons" unit operating as a:	N/A	N/A
MACT DDDDD	c) natural gas -fired indirect heat exchanger (21.8 million Btu per hour maximum rated heat input)	IN/A	IV/A
3515 PSD MACT DDDD	Surface Material Transport (SL fines from screening operation)	CD-3500, CD-3525	Simple cyclone - 72 inches in diameter Reverse flow fabric filter with 6,918 square feet of surface area
		CD-3512B CD-3515	Simple cyclone - 72 inches in diameter Reverse flow fabric filter with 5,767 square feet of surface area
3525 PSD MACT DDDD	Surface Formers and Mat Dumps	CD-3520A, CD-3520B, CD-3521	Three (3) simple cyclones - each 96 inches in diameter
		CD-3525	Reverse flow fabric filter with 6,918 square feet of surface area

Emission Source	Emission Source Description	Control Device	Control Device Description
ID No.	•	ID No.	•
3535 PSD MACT DDDD	Flying Cut Off Saw, Pretrim Saws, & Production Collection	CD-3530	Simple cyclone - 84 inches in diameter
MARCIBBB		CD-3531	Simple cyclone - 108 inches in diameter
		CD-3533	Simple cyclone - 108 inches in diameter
		CD-3535	Reverse flow fabric filter with 6,918 square feet of filter area
3545 PSD MACT DDDD	Particleboard Mill Steinemann Finishing Sander	CD-2006	Reverse flow bag filter with 6,918 square feet of surface area
		CD-3570	High efficiency cyclone - 144 inches in diameter
		CD-3575	Reverse flow bag filter with 1,159 square feet of surface area
DEF- 2010 PSD MACT DDDD	Particleboard Press	CD-PB-PGT	Packed bed scrubber with photochemical gas treatment
PB-BC PSD MACT DDDD	Particleboard Cooler	N/A	N/A
3565 PSD MACT DDDD	Particleboard Mill Steinemann Calibrating Sander	CD-5001	Reverse flow fabric filter with 6,918 square feet of surface area
MATOT BEE		CD-3570	High efficiency cyclone - 144 inches in diameter
		CD-3575	Reverse flow bag filter with 1,159 square feet of surface area
3555 PSD MACT DDDD	Schelling Saw Board Trim	CD-3522	High efficiency cyclone - 120 inches in diameter
		CD-4005	Reverse flow bag filter with 6,918 square feet of surface area
3575 PSD MACT DDDD	Sander Filter Transport for Filters 3545 & 3565	CD-3570	High efficiency cyclone - 144 inches in diameter
		CD-3575	Reverse flow bag filter with 1,159 square feet of surface area
3585 PSD MACT DDDD	PZKR Green Chip Flakers	CD-3585	Reverse flow bag filter with 4,880 square feet of surface area
3595 MACT DDDD	Oversize Material Pallmann Mill	CD-3595	Reverse flow bagfilter (Maximum air-to-cloth ratio of 3.0 ACFM/total filter surface area).
3577 PSD MACT DDDD	Dry waste transport system	CD-3532	Simple cyclone - 60 inches in diameter
MICI DDDD		CD-3577	Reverse flow bag filter with 4,068 square feet of surface area

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-DFP-1 MACT ZZZZ NSPS IIII	Diesel Fuel -fired Fire Pump Engine(347 Brake Horsepower output)	N/A	N/A
ES-ODG** MACT ZZZZ	Diesel-fuel Fired Emergency Generator (465 horsepower, 3,026 million Btu per hour heat input)		N/A
Laminator Mill			
3593 and 3594	Two (2) Short Cycle Laminating Presses	CD-3593	Reverse flow bagfilter (Maximum air-to-cloth ratio of 4.1 ACFM/total filter surface area).
Pr-Heat1 Case-by-Case MACT	Natural gas or No. 2 fuel oil-fired hot oil heater (4.7 million Btu per hour heat input) used with short cycle laminating presses	N/A	N/A



SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 - Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, record keeping, and reporting requirements as specified herein:

A. The following Material Handling Sources:

Table 2.1.A.

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
7001 or SP-1	Truck/Rail Chip Handling System, Enclosed	N/A	N/A
7004 or SP-2	Truck/Rail Sawdust Handling System, Enclosed	N/A	N/A
7010	Particle Board Mill Truck Dump	N/A	N/A
7012, 7014, 7015, 7029	Dump bunkers and CL dryer dump	N/A	N/A
7052, 7054, 7055, 7056	Wood residue bunkers	N/A	N/A
6001, 7002-A, 7002-B, 7002-C, 7002-D	Wood chip piles - Medium Density Fiberboard Mill	N/A	N/A
6003, 7006, 7007, 7022	Wood Fuel Pad and Boiler Transfers	N/A	N/A
7005-D, 7005-E, 7005- F, 7005-G	Sawdust transport to A-frame	N/A	N/A
7025	Scale transfer conveyors	N/A	N/A
7019, 7026	Fiber dump and reject filter bins	N/A	N/A
7027	Hog fuel hopper	N/A	N/A
7040, 7044, 7046, 7048, 7050	Particleboard Mill chip transfer	N/A	N/A
SP	Fuel Sawdust and Chip Storage Piles	N/A	N/A
7024	Particleboard Mill feed bins	N/A	N/A

The following table provides a summary of limits and/or standards for the material handling sources.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Visible emissions	20 percent opacity	15A NCAC 02D .0521
Odors	STATE ENFORCEABLE ONLY	15A NCAC 02D .1806
	Odorous emissions must be controlled - See Section 2.2. A.2;	
HAPs	No applicable requirements	15A NCAC 02D .1111

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of the test performed exceed the limits given in Section 2.1. A.1.a. (above) for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring, record keeping, or reporting is required for visible emissions from these emission sources.

B. Medium Density Fiberboard Facilities woodworking operations as presented in Table 2.1.B.

Table 2.1.B.

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-03	Fiber Sifter System	CD03	Fabric Filter (12,290 square feet of filter area)
ES-04	Forming Line Clean-Up System	CD04	Fabric Filter (9,346 square feet of filter area)
ES-05	Mat Reject System	CD05	Fabric Filter (9,346 square feet of filter area)
ES-07	Saw System	CD07	Fabric Filter (6,793 square feet of filter area)
ES-08	Sander System No. 1	CD08	Fabric Filter (12,290 square feet of filter area)
ES-09	Recycled Fiber Silo No. 1	CD09	Bin Vent Filter (226 square feet of filter area)
ES-10	Sander System No. 2	CD10	Fabric Filter (12,290 square feet of filter area)
ES-12	Sander Dust Silo No. 1	CD12	Bin Vent Filter (226 square feet of filter area)
ES-13	Dry Sawdust Silo	CD13	Bin Vent Filter (226 square feet of filter area)
ES-15	Recycled Fiber Silo No. 2	CD15	Bin Vent Filter (226 square feet of filter area)
ES-17	Sander Dust Silo No. 2	CD17	Bin Vent Filter (226 square feet of filter area)

The following table provides a summary of limits and/or standards for the woodworking operations in Table 2.1.B.

Regulated Pollutant	Limits/Standards	Applicable Regulation
PM	adequate duct work and properly designed collectors	15A NCAC 02D .0512
Visible emissions	20 percent opacity	15A NCAC 02D .0521
VOCs	Work Practice Standards See Section 2.2 A.1.	15A NCAC 02D .0958
Odors	STATE ENFORCEABLE ONLY See Section 2.2 A.2;	15A NCAC 02D .1806
HAPs	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products See Section 2.2 A.4.	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)
VOCs, Nitrogen oxides, PM _{2.5} , PM ₁₀	See Section 2.2 B.1.	15A NCAC 02Q .0317 (PSD Avoidance)

1. 15A NCAC 02D .0512: PARTICULATES FROM WOOD PRODUCTS FINISHING PLANTS

a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

Monitoring [15A NCAC 02Q .0508(f)]

b. Particulate matter emissions from the MDF wood working operations shall be controlled as presented in **Table**2.1.B. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:

- i. monthly external inspection of the ductwork, cyclones, and bagfilters noting the structural integrity; and
- ii. annual (for each 12 month period following the initial inspection) internal inspection of the bagfilters noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones and/or bagfilters are not inspected and maintained.

Recordkeeping [15A NCAC 02Q .0508(f)]

- c. The results of inspection and maintenance for the cyclones and bagfilters shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

Reporting [15A NCAC 02Q .0508 (f)]

- d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the MDF wood working operations <u>listed in Table 2.1.B.</u> shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1.B.2.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring [15A NCAC 02Q .0508(f)]

- c. To assure compliance, once a week the Permittee shall observe the emission points of these sources for any visible emissions above normal. The weekly observations must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1.B.2.a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.



C. Medium Density Fiberboard Facilities Operations as presented in Table 2.1.C.

Table 2.1.C.

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description	Emission Point*
		CD01	Refiner Abort Cyclone (66 inches in diameter) ²²	EP01
ES-01	Refiner	CD02 in series with CD18	Venturi scrubber Biofilter	EP02 / EP18
		CD14 In series with CD18	Venturi scrubber Biofilter	EP14/ EP18
	Energy System consisting	CD02-A	Urea/water injection system	EP02 / EP14 / EP18
ES-02-A	of a dry/wet wood/woodwaste-fired burner (205 million Btu per	CD02 In series with CD18	Venturi scrubber Biofilter	EP02 / EP18
	hour heat input)	CD14 In series with CD18	Venturi scrubber Biofilter	EP14 / EP18
ES-02-B ES-02-C	Two Stage Dryer System Two backup natural gas-	CD02 In series with CD18	Venturi scrubber Biofilter	EP02 / EP18
and ES-02-D	fired dryer burners (78.5 and 17 million Btu per hour heat input respectively)	CD14 In series with CD18	Venturi scrubber Biofilter	EP14
ES-06-B	MDF Board Cooler and Press Hall			/EP18
ES-16	MDF Press	CD02 In series with CD18	Venturi scrubber Biofilter	EP02 / EP18
25 10	1103	CD14 In series with CD18	Venturi scrubber Biofilter	EP14 /EP18

*Emission Points EP02 and EP14 will exhaust to the inlet of the biofilter (CD18) once installed.

The following table provides a summary of limits and/or standards for the operations in Table 2.1.C.

Regulated Pollutant	Limits/Standards	Applicable Regulation
PM	$E = 4.10P^{0.67}$ or $E = 55.0(P)^{0.11} - 40$ where; $E =$ allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 02D .0515
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
VOCs	Work Practice Standards See Section 2.2 A.1.	15A NCAC 02D .0958

² For operation during startup, shutdown and malfunction only.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	STATE ENFORCEABLE ONLY See Section 2.2 A.2	15A NCAC 02D .1806
HAPs	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products See Section 2.2 A.4.	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)
VOCs, Nitrogen oxides, PM _{2.5} , PM ₁₀	See Section 2.2 B.1.	15A NCAC 02Q .0317 (PSD Avoidance)
PM	Compliance Assurance Monitoring	15A NCAC 02D .0614: [40 CFR 64]

1. 15A NCAC 02D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from the emission sources in Table 2.1.C. shall not exceed an allowable emission rate as calculated by the following equation(s):

Process Rate	Allowable Emission Rate Equation
Less than or equal to 30 tons per hour	$E = 4.10 \text{ x P}^{0.67}$
Greater than 30 tons per hour	$E = 55.0(P)^{0.11} - 40$

Where E = allowable emission rate in pounds per hour

P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.
- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limit above on an annual basis by testing the emission points EP02 and EP14 in accordance with General Condition JJ. If the results of these tests are less than 80 percent of the emission limit above, the Permittee shall be required to stack test only once every five years following the previous stack test. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.
 - i. Upon installation of the biofilter (ID No. CD18), the Permittee need only test EP18 desired.

Monitoring [15A NCAC 02Q .0508(f)]

- d. Particulate matter emissions from these sources shall be controlled by the venturi scrubbers as described in Table 2.1.C.
- e. The Permittee shall perform inspections and maintenance as recommended by the manufacturer.
- f. The Permittee shall install, operate, and maintain instrumentation on the scrubbers identified in Table 2.1.C. to continuously monitor the parameters in Table 2.1.C.1.f. and maintain the parameters in the associated operating ranges. If the Permittee re-evaluates compliance with the emission limit in condition a. at parameter ranges outside of those in Table 2.1.C.1.f. below, the Permittee shall, upon approval by the DAQ, attach the approval memo containing the revised operating parameters to this permit and maintain the parameters in the associated operating ranges contained therein.

Table 2.1.C.1.f

Parameter	Control Device ID No.	Operating range, per control device
Pressure drop (inches of water	CD02	6.5
gauge, 3-hour block average)	CD14	6.5
Recirculating liquid flow rate	CD02	378
(gallons per minute, 3-hour block average)	CD14	416

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the monitoring requirements in conditions d. through f. are not met.

Recordkeeping [15A NCAC 02Q .0508(f)]

- g. The results of any monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the control devices;
 - iv. any variance from manufacturer's recommendations, if any, and corrections made; and
 - v. pressure drop, and recirculating flow rate, (3-hour block averages) for each venturi scrubber.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the recordkeeping requirements in condition e. are not met.

Reporting [15A NCAC 02Q .0508(f)]

h. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the emission sources in Table 2.1.C. shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

- c. To assure compliance, once a week the Permittee shall observe the emission points (EP02 and EP14) for any visible emissions above normal. The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. The Permittee shall re-establish "normal" within 30 days after the initial operation of the biofilter (ID No. CD18) by observing emission point EP18. Weekly observations will be made on EP18 afterwards. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in condition a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from the Energy System (**ID No. ES-02-A**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring, recordkeeping or reporting is required for sulfur dioxide emissions from wood combustion for the Energy System (**ID No. ES-02-A**).

4. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]

a. Pursuant to 40 CFR 64 and 15A NCAC 02D .0614, the Permittee shall comply with the conditions below for the Pollutant Specific Emission Unit(s) controlled by the venturi scrubbers (ID No. CD02, CD14 and CD16).

Emission Limitations/Standards

b. The following table presents the regulated pollutants and the associated emission limitations/standards:

Regulated Pollutant	Limits/Standards	Applicable Regulation
PM	See condition 2.1.C.1	15A NCAC 2D .0515

Monitoring Approach [15A NCAC 2Q .0508(f), 40 CFR 64.6]

c. The key elements of the monitoring approach for PM, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

Monitoring Elements	Indicator No. 1	Indicator No. 2	
Measurement	Injection rate measurements are made every	Pressure drop measurements are made every	
Approach	15 minutes	15 minutes	
[64.6(c)(1)(i), (ii)]			
Indicator Range	An excursion is defined as a one-hour block	An excursion is defined as a one-hour block	
[64.6(c)(2)]	average injection rate reading lower than the	average pressure drop reading lower than the	
	respective 3-hour block average reading listed	respective 3-hour block average reading listed	
	in Table 2.1.C.1.f. of this permit. Excursions	in Table 2.1.C.1.f. of this permit . Excursions	
	trigger an inspection and corrective action.	trigger an inspection and corrective action.	
QIP threshold	The QIP threshold is six excursions in a six-	The QIP threshold is six excursions in a six-	
[64.8]	month reporting period.	month reporting period.	
Data	Measurements are made once every 15 Measurements are made once every 15		
Representativeness	minutes and complied into the appropriate	minutes and complied into the appropriate	
[64.6(c)(1)(iii),	averaging periods.	averaging periods.	
64.3(b)(1)]			
Verification of	Monitoring shall be required upon issuance of permit no. <u>03449T45</u>		
Operational Status			
[64.3(b)(2)]			
QA/QC Practices	Flowmeter calibration shall be performed	Pressure transducer calibration shall be	
and Criteria	according to manufacturer recommendations.	performed according to manufacturer	
[64.3(b)(3)]	recommendations.		
Monitoring	Measurements are made by a computerized data acquisition and handling system once every 15		
frequency	minutes and complied into the appropriate averaging periods.		
[64.3(b)(4)]			
Data collection	Non-SSM periods when flowrate or pressure drop falls below the acceptable ranges for more		
procedure	than one -hour will be documented. An electronic or written logbook will be kept of all control		
[64.3(b)(4)]	device inspections and corrective actions		

Recordkeeping Requirements [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- d. The owner or operator shall maintain records of the following:
 - i. Date and time and results of all monitoring activities;
 - ii. Information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - iii. Maintenance records of the differential pressure gauge; and
 - iv. Written QIP required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan

Reporting Requirements [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- e. The Permittee shall submit a summary report of all monitoring activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations for the requirements of this permit must be clearly identified. At a minimum, the report shall include the following elements:
 - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.



D. The following sources for the Medium Density Fiberboard Facilities

Emission	Emission Source Description	Control Device	Control Device Description
Source ID No.		ID No.	
ES-18, ES-19,			
and ES-20	Three natural gas-fired hot oil		
NSPS Dc	heaters (24 million Btu per hour	NA	NA
Case-by-Case	maximum heat input each)		
MACT			

The following table provides a summary of limits and/or standards for the emission sources above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
PM	0.35 pounds per million Btu heat input	15A NCAC 02D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
NA	Notification and Recordkeeping	15A NCAC 02D .0524 (NSPS Subpart Dc)
HAPs	Best Combustion Practices	15A NCAC 02D .1109
HAPs	One time initial energy assessment Annual tune ups Compliance date: May 20, 2019	15A NCAC 02D .1111
VOCs	Work Practice Standards See Section 2.2 A.1.	15A NCAC 02D .0958
Odors	STATE ENFORCEABLE ONLY See Section 2.2 A.2;	15A NCAC 02D .1806
VOCs, Nitrogen oxides, PM _{2.5} , PM ₁₀	See Section 2.2 B.1.	15A NCAC 02Q .0317 (PSD Avoidance)

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of natural gas that are discharged from this source into the atmosphere shall not exceed 0.35 pounds per million Btu heat input.

Testing [15A NCAC 02Q. 0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in this source.

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from this source shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

<u>Testing</u> [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. No monitoring/recordkeeping is required for sulfur dioxide emissions from natural gas combustion for this source

3. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from this source shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of natural gas in this source.

4. 15A NCAC 02D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 02D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units" including Subpart A "General Provisions."

Recordkeeping Requirements [15A NCAC 02Q .0508(f)]

b. Pursuant to 40 CFR 60.48c(g)(2), the Permittee shall record and maintain records of the amount of fuel combusted during each calendar month. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0524 if these records are not maintained.

5. 15A NCAC 02D .1109: Case-by-Case MACT FOR BOILERS AND PROCESS HEATERS

- a. The Permittee shall use best combustion practices when operating the affected heaters (**ID Nos. ES-18**, **ES-19 and ES-20**). The initial compliance date for this work practice standard and the associated monitoring, recordkeeping, and reporting requirements is **October 18**, **2013**. These conditions need not be included on the annual compliance certification until after the initial compliance date.
 - i. The Permittee shall comply with this CAA §112(j) standard through **May 19, 2019**. The initial compliance date for the applicable CAA §112(d) standard for "National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters" is **May 20, 2019**, as specified in Section 2.1.D.6 below.

Monitoring/Recordkeeping

- b. To assure compliance, the Permittee shall perform an annual boiler inspection and maintenance as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:
 - i. Inspect the burner, and clean or replace any components of the burner as necessary;
 - ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and,
 - iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.

The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if the affected heaters are not inspected and maintained as required above.

- c. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - The date of each recorded action;
 - ii. The results of each inspection; and,
 - iii. The results of any maintenance performed on the heaters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

d. No reporting is required.

6. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.7485, §63.7490(d), §63.7499(l)]

- a. For these sources (existing sources(s) designed to burn gas 1 fuels with a heat input capacity equal to or greater than 10 million Btu per hour), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD. "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."
 - i. The Permittee shall comply with the CAA §112(j) standard in Section 2.1.D.5 through **May 19, 2019**. The Permittee shall be subject to the requirements of this standard starting May 20, 2019. Note that the requirements of this standard may require action on behalf of the Permittee prior to May 20, 2019.

Definitions and Nomenclature [§63.7575]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply.

40 CFR Part 63 Subpart A General Provisions [§63.7565]

c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD.

Compliance Date [40 CFR 63. 7510(e), §63.56(b)]

d. The Permittee shall complete the initial tune up and the one-time energy assessment no later than May 20, 2019.

Notifications [§63.7545(e)(8), §§63.7530(e),(f)]

- e. The Permittee shall submit a Notification of Compliance Status. The notification must be signed by a responsible official and sent before the close of business on the 60th day following the completion of the initial tune up and one time energy assessment (whichever is later). The notification shall contain the following:
 - i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, and description of the fuel(s) burned.
 - ii. the following certification(s) of compliance, as applicable:
 - A.- "This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR 63 Subpart DDDDD at the site according to the procedures in.40 CFR 63.7540(a)(10)(i) through (vi) [i.e., conditions g.i. through g.v. and l. ii.]; and
 - B.- "This facility has had an energy assessment performed according to 40 CFR 63.7530(e)" [i.e., condition k.] and is an accurate depiction of the facility at the time of the assessment.

General Compliance Requirements [§63.7505(a), §63.7500(f)]

f. The Permittee shall be in compliance with the work practice standards in this subpart. These standards apply at all times the affected unit is operating.

Work Practice Standards [15A NCAC 02Q .0508(f)]

- g. The Permittee shall conduct a tune-up of the source(s) annually as specified below.
 - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown;
 - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown);
 - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_X requirement to which the unit is subject; and
 - v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

 $[\S\S63.7500(a), (e), \S63.7540(a)(10)]$

- h. Each annual tune-up shall be conducted no more than 13 months after the previous tune-up. [40CFR 63.7515(d)]
- i. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

[§63.7540(a)(13), §63.7515(g)]

j. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[§63.7500(a)(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in conditions c. through j. are not met.

k. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must address the requirements in 40 CFR 63 Subpart DDDDD, Table 3, with the extent of the evaluation for items (a) to (e) in Table 3 appropriate for the on-site technical hours listed in §63.7575: [§63.7500(a)(1), Table 3]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in condition k. are not met.

Recordkeeping Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.7555]

- 1. The Permittee shall keep the following:
 - i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

[40 CFR 63.7555(a)(1)]

- ii. maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (A) through (C) below:
 - (A) the concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the adjustments of the source;
 - (B) a description of any corrective actions taken as a part of the combustion adjustment; and
 - (C) the type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

[40 CFR 63.7540(a)(10)(vi)]

- iii. the associated records for conditions f. through k. including:
 - (A) the occurrence and duration of each malfunction of operation (i.e., process equipment) or the required air pollution control and monitoring equipment.

[40 CFR 63.10(b)(2)(ii)]

iv. records of the calendar date, time, occurrence and duration of each startup and shutdown.

[40 CFR 63.7555(i)]

v. records of the type(s) and amount(s) of fuels used during each startup and shutdown.

[40 CFR 63.7555(j)]

m. The Permittee shall:

- i. maintain records in a form suitable and readily available for expeditious review;
- ii. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
- iii. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.

[40 CFR 63.7560, 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained as described in conditions 1. through m.

Reporting Requirements [15A NCAC 02Q .0508(f)]

- n. Pursuant to 40 CFR 63.7550(b), the Permittee shall submit compliance reports to the DAQ on an annual basis. The Permittee shall submit the compliance report postmarked on or before January 30 of each calendar year for the preceding 12-month period. The first report shall be postmarked on or before January 30, 2017.
 - This report must also be submitted electronically through the EPA's Central Data Exchange (CDX)
 (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the
 time that the report is due the report the Permittee submit the report to the at the appropriate address listed in 40
 CFR 63.13. [40 CFR 63.7550(h)(3)]

- o. The compliance report must contain the following information:
 - i. Company name and address;
 - ii. Process unit information, emissions limitations, and operating parameter limitations;
 - iii. Date of report and beginning and ending dates of the reporting period;
 - iv. The total operating time during the reporting period;
 - iv. If there are no deviations from the requirements of the work practice requirements in condition g. above, a statement that there were no deviations from the work practice standards during the reporting period; and
 - v. Include the date of the most recent tune-up for each unit required according to condition g. Include the date of the most recent burner inspection if it was not done as scheduled and was delayed until the next scheduled or unscheduled unit shutdown.

[40 CFR 63.7550(a) and (c), Table 9]

- p. If you have a deviation from a work practice standard during the reporting period, the report must contain the following information:
 - i. A description of the deviation and which emission limit or operating limit from which you deviated; and
 - ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.

[40 CFR 63.7550(a) and (d), 63.7540(b), Table 9]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in conditions n. through p. are not met.

E. The following Particleboard Mill operations:

Table 2.1.E.1

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description			
Particleboard Mill Combustion Sources and Dryers						
1430	Surface layer triple pass, rotary drum	CD-1431	High efficiency multi-cyclone with 2 tubes, each 132 inches in diameter			
	(#3) dryer with one wood suspension dust/natural gas-fired burner (60 million Btu per hour maximum rated	CD-PB- WESP	Wet electrostatic precipitator			
	heat input)	CD-PB- PGT	Packed bed scrubber with photochemical gas treatment			
1420	Core layer single pass, rotary drum (#1) dryer with one wood suspension	CD-1421	High efficiency multi-cyclone with 4 tubes, each 80 inches in diameter			
	dust/natural gas-fired burner (50 million Btu per hour maximum rated	CD-PB- WESP	Wet electrostatic precipitator			
	heat input)	CD-PB- PGT	Packed bed scrubber with photochemical gas treatment			
	Core layer single pass, rotary drum (#2) dryer with one wood suspension dust/natural gas-fired burner (50 million Btu per hour maximum rated heat input)	CD-1411	High efficiency multi-cyclone with 4 tubes, each 80 inches in diameter			
1410		CD-PB- WESP	Wet electrostatic precipitator			
		CD-PB- PGT	Packed bed scrubber with photochemical gas treatment			
	Operating Scenario 1 One "Wellons" unit operating as a:	CD-1431 AND/OR	High efficiency multi-cyclone with 2 tubes, each 132 inches in diameter			
	a) wood suspension dust -fired burner (40 million Btu per hour maximum rated heat input); or a	CD-1421	High efficiency multi-cyclone with 4 tubes, each 80 inches in diameter			
	b) natural gas-fired burner (21.8 million Btu per hour maximum rated	AND/OR CD-1411,	High efficiency multi-cyclone with 4 tubes,			
3201	heat input);	AND	each 80 inches in diameter			
	exhausting to either surface layer triple pass, rotary drum (#3) dryer [ID No. 1430] and/or	CD-PB- WESP	Wet electrostatic precipitator			
	core layer single pass, rotary drum (#1) dryer [ID No. 1420] and/or	CD-PB- PGT	Packed bed scrubber with photochemical gas treatment			
	core layer single pass, rotary drum (#2) dryer [ID No. 1410]					
3201	Operating Scenario 2 One "Wellons" unit operating as a:	NA	NA			
	c) natural gas -fired indirect heat exchanger (21.8 million Btu per hour maximum rated heat input)					

Table 2.1.E.2

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description			
Particleboard Mill Other Operations						
	Sawdust Rock	CD-SC	High efficiency cyclone - 72 inches in diameter			
3501	and Metal	CD-3501	Reverse flow bag filter with 2,410 square feet of surface			
	Separator		area			
		CD-3500,	Simple cyclone - 72 inches in diameter			
	Surface Material	CD-3525	Reverse flow fabric filter with 6,918 square feet of surface			
3515	Transport		area			
3313	(SL fines from	CD 2512P	in parallel with			
	screening operation)	CD-3512B, CD-3515	Simple cyclone - 72 inches in diameter Reverse flow fabric filter with 5,767 square feet of surface			
		CD-3313	area			
		CD-3520A,	Three (3) simple cyclones - each 96 inches in diameter			
		CD-3520B,	Three (3) simple eyelones each 70 menes in diameter			
3525	Surface Formers	CD-3521				
	and Mat Dumps		Reverse flow fabric filter with 6,918 square feet of surface			
		CD-3525	area			
	Flying Cut Off Saw,	CD-3530	Simple cyclone - 84 inches in diameter			
3535	Pretrim Saws, &	CD-3531	Simple cyclone - 108 inches in diameter			
3333	Production	CD-3533	Simple cyclone - 108 inches in diameter			
	Collection	CD-3535	Reverse flow fabric filter with 6,918 square feet of filter area			
		CD-2006,	Reverse flow bag filter with 6,918 square feet of surface area			
25.45	Particleboard Mill	CD 2570	in series with			
3545	Steinemann	CD-3570,	High efficiency cyclone - 144 inches in diameter			
	Finishing Sander	CD-3575	in series with			
DEF- 2010	Particleboard Press	CD-PB-PGT	Reverse flow bag filter with 1,159 square feet of surface area Packed bed scrubber with photochemical gas treatment			
	Particleboard Particleboard					
PB-BC	Cooler	None	None			
		CD-5001,	Reverse flow fabric filter with 6,918 square feet of surface			
	Particleboard Mill		area			
3565	Steinemann	CD-3570,	in series with			
3303	Calibrating Sander	CD-3575	High efficiency cyclone - 144 inches in diameter			
	Cantraining Bander		in series with			
	2 1 111 2		Reverse flow bag filter with 1,159 square feet of surface area			
3555	Schelling Saw	CD-3522,	High efficiency cyclone - 120 inches in diameter			
	Board Trim	CD-4005	Reverse flow bag filter with 6,918 square feet of surface area			
2575	Sander Filter	CD-3570, CD-3575	High efficiency cyclone - 144 inches in diameter			
3575	Transport for Filters 3545 & 3565	CD-3373	Reverse flow bag filter with 1,159 square feet of surface area			
	PZKR Green Chip	CD-3585	Reverse flow bag filter with 4,880 square feet of surface area			
3585	Flakers	CD 3303	The relief from oug finer with 7,000 square feet of sufface area			
3595	Oversize Material	CD-3595	Reverse flow bagfilter (Maximum air-to-cloth ratio of 3.0			
	Pallmann Mill		ACFM/total filter surface area).			
		CD-3532,	Simple cyclone - 60 inches in diameter			
3577	Dry waste transport	•				
	system	CD-3577	Reverse flow bag filter with 4,068 square feet of surface area			

The following table provides a summary of limits and/or standards for the particleboard mill.

Regulated Pollutant	Limits/Standards	Applicable Regulation
PM	0.30 lb/million Btu (ID No. 3201) (OS-2 only)	15A NCAC 02D .0503
PM	adequate duct work and properly designed collectors	15A NCAC 02D .0512
	Affected facilities: Sources listed in Table 2.1.E.2	
PM	E = $4.10P^{0.67}$ when P<30 tons per hour Or E = $55.0P^{0.11}$ when P≥30 tons per hour where E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 02D .0515
	Affected facilities: Sources listed in Table 2.1.E.1 except (ID No. 3201) during OS-2	
Sulfur dioxide*	2.3 pounds per million Btu heat input Affected facilities: Sources listed in Table 2.1.E.1	15A NCAC 02D .0516(a)
Visible emissions	20 percent opacity	15A NCAC 02D .0521(d)
PM ₁₀ Carbon monoxide VOCs Nitrogen dioxide Visible emissions	See Section 2.1 E.6.	15A NCAC 02D .0530
VOCs	Work Practice Standards See Section 2.2 A.1.	15A NCAC 02D .0958
Odors	STATE ENFORCEABLE ONLY See Section 2.2 A.2;	15A NCAC 02D .1806
HAPs	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products See Section 2.2 A.4.	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)
HAPs	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (ID No. 3201) (OS-2 only)	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDDD)
PM, PM10, VOC	Compliance Assurance Monitoring	15A NCAC 02D .0614 [40 CFR 64]

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the Wellons (**ID No 3201**, **when operating in OS-2 only**) that are discharged from this source into the atmosphere shall not exceed 0.33 pounds per million Btu heat input.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas in this source.

2. 15A NCAC 02D .0512: PARTICULATES FROM WOOD PRODUCTS FINISHING PLANTS

a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- b. Particulate matter emissions from the sources in Table 2.1.E.2 shall be controlled as presented in Table 2.1.E.2.
 - i. No monitoring, recordkeeping or reporting shall be required for the particulate matter emissions from the particleboard press (ID No. DEF-2010) and particleboard cooler (ID No. PB-BC).
- c. To ensure compliance, the Permittee shall perform inspections and as follows:
 - i. monthly external inspection of the duct work and cyclones, noting the structural integrity; and
 - ii. internal inspection of the bag filters, every 12 months, noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if the ductwork, cyclones, and bag filters are not inspected and maintained.

- d. The results of inspection and maintenance for the cyclones, and bag filters shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0512 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit the results of any maintenance performed on the control devices in Table E.2 within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and record keeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02D .0515: PARTICULATE EMISSIONS FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from the emission sources in Table 2.1.E.1 that are discharged into the atmosphere shall not exceed an allowable emission rate as calculated by the following equations:

Process Rate	Allowable Emission Rate Equation
Less than or equal to 30 tons per hour	$E = 4.10 \text{ x P}^{0.67}$
Greater than 30 tons per hour	$E = 55.0(P)^{0.11} - 40$

Where E = allowable emission rate in pounds per hour

P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of the test performed exceed the limits given in condition a. above for particulate matter, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

- c. Particulate matter emissions from the emission sources in Table 2.1.E.1. shall be controlled as presented in Table 2.1.E.1
- d. The monitoring, recordkeeping, and reporting requirements required in 2.1 E.6.d.ii., f., h., j., l., m., and n. shall be followed in order to demonstrate compliance with 15A NCAC 02D .0515.

4. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Sulfur dioxide from the emission sources in Table 2.1.E.1 shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring, record keeping, or reporting is required for sulfur dioxide emissions from then sources in Table 2.1.E.1.

5. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the emission sources in Table 2.1E.1 and 2.1.E.2 shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of the test performed exceed the limits given in condition a. above for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. To ensure compliance, the Permittee shall observe, on a weekly basis, the following emission points in the Particleboard mill for any visible emissions above normal:

Emission Source Description and ID No.	Emission Point ID No.
Sawdust Rock and Metal Separator (ID No. 3501)	CD-3501
Surface Layer Dryer (ID No. 1430)	
Core Layer Dryer #1 (ID No. 1420)	CD-PB-PGT
Core Layer Dryer #2 (ID No. 1410)	CD-PB-PG1
"Wellons" Burner (ID No. 3201) (OS-1 only)*	
Particleboard Press (ID No. DEF-2010)	CD-PB-PGT
Surface Material Transport (ID No. 3515)	CD-3515 and
	CD-3525
Surface Formers and Mat Dumps (ID No. 3525)	CD-3525
Flying Cut Off Saw, Pretrim Saws, and Production Collection (ID No. 3535)	CD-3535
Board Cooler (ID No. PB-BC)	PB-BC
Particleboard Mill Steinemann Calibrating Sander (ID No. 3565)	CD-3575
Particleboard Mill Steinemann Finishing Sander (ID No. 3545)	CD-3575 and CD-2006
Schelling Saw Board Trim (ID No. 3555)	CD-4005
Sander Filter Transport for Filters 3545 and 3565(ID No. 3575)	CD-3575
PZKR Green Chip Flakers (ID No. 3585)	CD-3585
Oversized Material Pallmann Mill (ID No. 3595)	CD-3595
Dry Waste Transport System (ID No. 3577)	CD-3577

^{*} No observations are required for the Wellons burner (ID No. 3201) when operating in OS-2.

The weekly observation must be made for each week of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:

- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
- ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in condition a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

- d. The results of the monitoring for visible emissions shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. To ensure quality, entries in the logbook should be signed by personnel responsible for the effective operation of the units in the particleboard mill and their air pollution control devices. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of monitoring and record keeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.



6. 15A NCAC 02D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. For PSD purposes, the following "Best Available Control Technology" (BACT) permit limitations shall not be exceeded for units in the particleboard mill (**ID No. PB**):

Emission Source	Pollutants	Emission Limits *,***	Control Technology
Considerat Deads and Matal	PM_{10}	0.02 lbs/hr	cyclone and baghouse
Sawdust Rock and Metal	VOC	5.56 lbs/hr, as C	none
Separator (ID No. 3501)	Opacity	20 percent	cyclone and baghouse
Surface Layer Dryer (ID No. 1430)	PM_{10}	28.3 lbs/hr **	good combustion control with existing multiclones and wet ESP
Core Layer Dryer # 1(ID No. 1420)	VOC	163.3 lbs/hr, as C **	good combustion control with existing wet ESP
Core Layer Dryer #2 (ID No.	CO	329.4 lbs/hr **	good combustion control
1410)	NOx	94.7 lbs/hr **	good combustion control
	PM_{10}	0.02 lbs/hr	cyclones and baghouse
Surface Material Transport (ID	VOC	46.5 lbs/hr, as C	none
No. 3515)	Opacity	20 percent	cyclones and baghouse
	PM_{10}	0.06 lbs/hr	cyclones and baghouse
Surface Formers and Mat Dumps	VOC	1.95 lbs/hr, as C	none
(ID No. 3525)	Opacity	20 percent	cyclones and baghouse
Flying Cut Off Saw, Pretrim	PM ₁₀	0.005 lbs/hr	cyclones and baghouse
Saws, and Production Collection	VOC	1.77 lbs/hr, as C	none
(ID No. 3535)	Opacity	20 percent	cyclones and baghouse
Particleboard Press (ID No. DEF-	PM ₁₀	3.29 lbs/hour	none
2010) and Board Cooler (ID No.	VOC	32.1 lbs/hour as C	none
PB-BC)	Opacity	20 percent	none
	PM_{10}	0.02 lbs/hour	cyclone and baghouses
Particleboard Steinemann	VOC	1.08 lbs/hour as C	none
Calibrating Sander (ID No. 3565)	Opacity	20 percent	cyclone and baghouses
	PM_{10}	1.2 lbs/hour	cyclone and baghouses
Particleboard Steinemann	VOC	0.35 lbs/hour as C	none
Finishing Sander (ID No. 3545)	Opacity	20 percent	cyclone and baghouses
	PM_{10}	0.01 lbs/hour	cyclone and baghouse
Schelling Saw Board Trim (ID	VOC	0.72 lbs/hour as C	none
No. 3522)	Opacity	20 percent	cyclone and baghouse
	PM_{10}	4.0 lbs/hour	cyclone and baghouse
Sander Filter Transport for Filters	VOC	1.77 lbs/hour as C	none
3545 and 3565 (ID No. 3575)	Opacity	20 percent	cyclone and baghouse
	PM_{10}	1.0 lbs/hour	baghouse
PZKR Green Chip Flakers (ID	VOC	0.64 lbs/hour as C	none
No. 3585)	Opacity	20 percent	baghouse
	PM ₁₀	0.005 lbs/hour	baghouse
Oversized Material Pallmann Mill	VOC	1.77 lbs/hour as C	none
(ID No. 3595)	Opacity	20 percent	baghouse
			•
Dry Waste Transport System (ID No. 3577)	PM ₁₀ VOC	0.005 lbs/hour 1.77 lbs/hour as C	cyclone and baghouse

^{*} BACT limits shall apply at all times. However, emissions resulting from startup, shutdown or malfunction as defined under 15A NCAC 02D .0535, exceeding the limits in condition a. above are permitted, provided that the Permittee, to the extent practicable, maintains and operates each emission source including any associated air pollution control equipment listed in this Table, in a manner consistent with good air pollution control practice for minimizing emissions.

^{**} BACT emission limits are a total for three particleboard dryers (ID Nos. 1410, 1420, and 1430).

^{***} All BACT limits were established prior to the installation of the scrubber (ID No. CD-PB-PGT).

<u>Testing (PM₁₀, VOC, CO, NOx)</u> [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required for visible emissions, PM₁₀, VOC, CO and NOx, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limits given in Section 2.1 E.6.a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.
- c. Under the provisions of NCGS 143-215.108, the Permittee shall demonstrate compliance with the emission limits in condition a. above by testing the particleboard dryers (**ID Nos. 1410, 1420, and 1430**) for PM₁₀, VOC, CO and NOx in accordance with a testing protocol approved by the DAQ. Details of the emissions testing and reporting requirements can be found in Section 3 General Condition JJ of the permit. Testing shall be completed and the results submitted within 90 days of start-up of particleboard dryer (**ID No. 1410**). All three dryers shall be in operation during this source testing.

If the results of the tests are above any of the limits in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

Monitoring (PM₁₀) [15A NCAC 02Q .0508(f)]

- d. PM₁₀ emissions from the units in the particleboard mill [**ID No. PB**] shall be controlled as follows:
 - i. In the sawdust rock and metal separator (ID No. 3501), raw materials shall be sorted to remove unusable material and transported through a high efficiency cyclone (ID No. SC), which is 72 inches in diameter. Emissions from the cyclone shall be exhausted to a fabric filter (ID No. CD-3501) with 2,410 square feet of filter surface area.
 - ii. Emissions from the sources in in Table 2.1.E.1. shall be controlled as presented in Table 2.1.E.1
 - iii. Emissions from the sources in in Table 2.1.E.2. shall be controlled as presented in Table 2.1.E.2

Cyclones, multicyclones and fabric filters in Tables 2.1.E.1 and 2.1.E.2

- e. To ensure compliance and effective operation, the Permittee shall perform inspections and maintenance, as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual external inspection of the control devices, system ductwork, and the material collection units for leaks.
 - ii. for each bagfilter, an annual (for each 12 month period following the initial inspection) internal inspection of the bagfilter's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the requirements in condition e. are not met.

Wet electrostatic precipitator (ID No. CD-PB-WESP)

- f. To ensure compliance and the effective operation of the wet electrostatic precipitator (**ID No. CD-PB-WESP**), the Permittee shall:
 - i. operate the wet electrostatic precipitator with a minimum of two of the possible three fields, excluding periods when one of the two fields is in a wash cycle;
 - ii. monitor and record the secondary voltage and current through the precipitator. The lower limits (3-hour block averages) are given below:

Table 2.1.E.6.f.

Field No.	<mark>Minimum Secondary Voltage, kilovolts</mark>	Minimum Current, milliamps	
1	<mark>23</mark>	<mark>80</mark>	
<mark>2</mark>	<mark>30</mark>	<mark>208</mark>	
<mark>3</mark>	<mark>34</mark>	<mark>214</mark>	

- iii. The Permittee shall maintain a minimum water injection rate to the wet electrostatic precipitator of 7.8 gallons per minute (gpm, 3-hour block average).
- iv. If the Permittee revaluates compliance with the emission limit in condition a. at parameter ranges outside of those in Table 2.1.E.6.f., the Permittee shall, upon approval by the DAQ, attach the approval memo containing the revised operating parameters to this permit and maintain the parameters in the associated operating ranges contained therein.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if:

- i. the voltage or current readings are not monitored or recorded, excluding periods of start-up, shut-down, malfunction, and monitor downtime; and as provided in i. and ii. above;
- ii. the voltage or current fall below the lower limits as established above in condition.f.ii.; or
- iii. the water injection rate falls below 7.8 gpm (3-hour block average)

Monitoring (CO, VOC and NOx) [15A NCAC 02Q .0508(f)]

- g. To ensure compliance and effective operation, the Permittee shall perform inspections and maintenance of the particleboard dryers (**ID Nos. 1410, 1420, and 1430**). At a minimum, the inspection and maintenance requirement shall include the following:
 - i. a weekly inspection of burners, fans, blowers, and associated process control equipment.
 - ii. an annual (for each 12-month period following the initial inspection) internal inspection of the particleboard dryers (**ID Nos. 1410, 1420, and 1430**) for structural integrity.

If the required in condition g. are not met, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0530.

Monitoring/Recordkeeping (VE) [15A NCAC 02Q .0508(f)]

h. The monitoring/recordkeeping requirements in Section 2.1 E.5.c. and d. shall be sufficient to assure compliance with 15A NCAC 02D .0530. If the requirements of Section 2.1 E.5.c. and d. are not met, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

Recordkeeping (PM₁₀) [15A NCAC 02Q .0508(f)]

For the cyclones, multicyclones and fabric filters and WESP in Tables 2.1.E.1 and 2.1.E.2

- The results of inspection and maintenance activities shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative of DAQ upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these records are not maintained.

Recordkeeping (CO, VOC and NOx) [15A NCAC 02Q .0508(f)]

- j. The results of inspection and maintenance of the particleboard dryers (ID Nos. 1410, 1420, and 1430) shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative of DAQ upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the particleboard dryers; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with $15A\ NCAC\ 02D\ .0530$ if these records are not maintained.

Monitoring/Recordkeeping (PM₁₀, CO, VOC, NO_x, and VE) [15A NCAC 02Q .0508(f)]

- k. The total particleboard production at the Particleboard Mill (**ID No. PB**) during any consecutive 12-month period shall not exceed **180,000,000 square feet on a ¾-inch basis**. The Permittee shall maintain monthly records of the total amount of particleboard produced in a logbook (written or in electronic format). Such records shall indicate the amount of particleboard produced during the preceding month and the total amount of particleboard produced over the preceding 12-month period.
 - The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the requirements in condition k, are not met.
- 1. The operating hours for particleboard dryers (**ID Nos. 1410, 1420 and 1430**) shall not exceed 8,500 hours each during any consecutive 12-month period. The Permittee shall keep monthly records of the hours of operation for each particleboard dryer. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the requirements in condition l. are not met.

Reporting (PM₁₀, CO, VOC, and NOx) [15A NCAC 02Q .0508(f)]

PM₁₀, CO, VOC, and NOx

- m. The Permittee shall submit the results of any maintenance performed on the control devices in Tables 2.1.E.1 and 2.1.E.2 and/or particleboard dryers (**ID Nos. 1410, 1420, and 1430**) within 30 days of a written request by the DAQ.
- n. The Permittee shall submit a summary report of monitoring and record keeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

$\overline{\mathbf{VE}}$

o. Reporting requirements in Section 2.1 E.5.e. shall be sufficient to assure compliance with 15A NCAC 02D .0530.

PM₁₀, CO, VOC, NO_x, VE

- p. By January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June, the following shall be reported to the Regional Supervisor, Division of Air Quality:
 - i. the annual production rate at the Particleboard Mill (ID No. PB) in square feet on a ¾-inch basis. The annual production rate must be calculated for each of the six twelve-month periods over the previous seventeen months.
 - ii. the hours of operation for each particleboard dryer (**ID Nos. 1410, 1420 and 1430**) for each of the six twelve-month periods over the previous seventeen months.

All instances of deviations from the requirements of this permit must be clearly identified.

7. 15A NCAC 02D .0614: COMPLIANCE ASSURANCE MONITORING [40 CFR 64]

a. Pursuant to 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the conditions below for the Pollutant Specific Emission Unit(s) controlled by the wet electrostatic precipitator (ID No. CD-PB-WESP).

Emission Limitations/Standards

b. The following table presents the regulated pollutants and the associated emission limitations/standards:

Regulated Pollutant	Limits/Standards	Applicable Regulation
PM PM ₁₀	See condition 2.1.E.1 See condition 2.1.E.6	15A NCAC 2D .0515 15A NCAC 2D .0530
VOCs	See condition 2.1.E.6	15A NCAC 2D .0530

Monitoring Approach [15A NCAC 2Q .0508(f), 40 CFR 64.6]

c. The key elements of the monitoring approach for PM and PM₁₀, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

Monitoring Elements	Indicator No. 1	Indicator No. 2	
Measurement	Secondary voltage readings on each of the	Current readings on each of the three fields	
Approach	three fields are made on each field of the wet	are made on each field of the wet ESP every	
[64.6(c)(1)(i), (ii)]	ESP every 15 minutes	15 minutes An excursion is defined as a one-hour block	
Indicator Range [64.6(c)(2)]	An excursion is defined as a one-hour block average voltage reading in any field lower		
[04.0(0)(2)]	than the respective 3-hour block average	average current reading in any field lower than the respective 3-hour block average	
	reading listed in Table 2.1.E.6.f. of this	reading listed in Table 2.1.E.6.f. of this	
	permit. Excursions trigger an inspection and	permit. Excursions trigger an inspection and	
	corrective action.	corrective action.	
QIP threshold	The QIP threshold is six excursions in a six-	The QIP threshold is six excursions in a six-	
[64.8]	month reporting period.	month reporting period.	
Data	Measurements are made once every 15	Measurements are made once every 15	
Representativeness	minutes and complied into the appropriate	minutes and complied into the appropriate	
[64.6(c)(1)(iii),	averaging periods.	averaging periods.	
64.3(b)(1)]			
Verification of	Monitoring shall be required upon issuance of permit no. <u>03449T45</u>		
Operational Status			
[64.3(b)(2)]			
QA/QC Practices	Voltmeter calibration shall be performed	Ammeter calibration shall be performed	
and Criteria	according to manufacturer recommendations.	according to manufacturer recommendations.	
[64.3(b)(3)]	M	15	
Monitoring	Measurements are made by a computerized data acquisition and handling system once every 15		
frequency	minutes and complied into the appropriate averaging periods.		
[64.3(b)(4)]	N. CCM	. 1 . 1	
Data collection	Non-SSM periods when voltage and current fall		
procedure	one -hour will be documented. An electronic or written logbook will be kept of all control		
[64.3(b)(4)]	device inspections and corrective actions		

Monitoring Approach [15A NCAC 2Q .0508(f), 40 CFR 64.6]

d. The key elements of the monitoring approach for VOC, including parameters to be monitored, parameter ranges and performance criteria are presented in the following table.

Monitoring Elements	Indicator
Measurement	Liquid flow readings to the WESP are made once every 15-minutes
Approach	
[64.6(c)(1)(i), (ii)]	
Indicator Range	An excursion is defined as a one-hour block average flow reading lower than 3-hour block
[64.6(c)(2)]	average reading listed in section 2.1.E.6.f.iii of this permit Excursions trigger an inspection
	and corrective action.
QIP threshold	The QIP threshold is six excursions in a six-month reporting period.
[64.8]	
Data	Measurements are made once every 15 minutes and complied into the appropriate averaging
Representativeness	periods.
[64.6(c)(1)(iii),	
64.3(b)(1)]	
Verification of	Monitoring shall be required upon issuance of permit No. <u>03449T45</u>
Operational Status	
[64.3(b)(2)]	
QA/QC Practices	Flowmeter calibration shall be performed according to manufacturer recommendations.
and Criteria	
[64.3(b)(3)]	
Monitoring	Measurements are made by a computerized data acquisition and handling system once every 15
frequency	minutes and complied into the appropriate averaging periods.
[64.3(b)(4)]	
Data collection	Non-SSM periods when voltage and current falls below the acceptable ranges for more than
procedure	one -hour will be documented. An electronic or written logbook will be kept of all control
[64.3(b)(4)]	device inspections and corrective actions

Recordkeeping Requirements [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- e. The owner or operator shall maintain records of the following:
 - i. Date and time and results of all monitoring activities;
 - ii. Information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - iii. Maintenance records of the differential pressure gauge; and
 - iv. Written QIP required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan

Reporting Requirements [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- f. The Permittee shall submit a summary report of all monitoring activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations for the requirements of this permit must be clearly identified. At a minimum, the report shall include the following elements:
 - Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - ii. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - iii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

8. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.7485]

- a. For this existing process heater designed to burn gas 1 fuels (ID No.3201), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD. "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."
 - i. Condition 2.1.E.8 applies only when the Permittee operates the Wellons (**ID No. 3201**) in operating scenario 2 (OS-2).

Definitions and Nomenclature [40 CFR 63.7575]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply.

40 CFR Part 63 Subpart A General Provisions [40 CFR 63.7565]

c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD.

Compliance Date [40 CFR 63.7495(b)]

- d. The Permittee shall complete the initial tune up and the one-time energy assessment no later than January 31, 2016. [40 CFR 63.7495(b), 63.7510(e)]
 - i. If the Wellons (**ID No. 3201**) is not operated in OS-2 prior to January 1, 2016, the Permittee shall complete the initial tune up no later than 30 days after startup. [40 CFR 63.7510(j)]

Notifications [40 CFR 63.7545, 63.7530(d),(e),(f)]

- e. The Permittee shall submit a Notification of Compliance Status. The notification shall contain the following:
 - i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, and description of the fuel(s) burned.
 - ii. the following certification(s) of compliance, as applicable:
 - i.- "This facility complies with the required initial tune-up according to the procedures in condition g.i. through g.v. and m. ii.' (40 CFR 63.7540(a)(10)(i) through (vi)); and
 - ii.- "This facility has had an energy assessment performed according to condition k. (40 CFR 63.7530(e))."

The notification must be signed by a responsible official and sent before the close of business on the 60th day following the completion of the initial tune up and one time energy assessment (whichever is later).

General Compliance Requirements [40 CFR 63.7505(a), 63.7500(f)]

f. The Permittee shall be in compliance with the work practice standards in this subpart. These standards apply at all times the affected unit is operating.

Work Practice Standards [15A NCAC 02Q .0508(f)]

- g. The Permittee shall conduct a tune-up of the process heater annually as specified below.
 - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unscheduled unit shutdown;
 - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown)'
 - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NOX requirement to which the unit is subject.

v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[40CFR 63.7500(a), 63.7540(a)(10)]

- h. Each annual tune-up shall be conducted no more than 13 months after the previous tune-up. [40CFR 63.7515(d)]
- i. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup.

[40 CFR 63.7540(a)(13), 63.7515(g)]

j. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.7500(a)(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in $\underline{\text{f. through j.}}$ are not met.

Energy Assessment Requirements [15A NCAC 02Q .0508(b)]

- k. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must include the following items:
 - i. A visual inspection of the boiler system;
 - ii. An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints;
 - iii. An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator;
 - iv. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - v. A list of major energy conservation measures that are within the facility's control;
 - vi. A list of the energy savings potential of the energy conservation measures identified; and
 - vii. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
- 1. The energy assessment will be 8 on-site technical labor hours in length maximum, but may be longer at the discretion of the owner or operator of the affected source. The boiler system(s) and any on-site (excluding MDF plant) energy use system(s) accounting for at least 50 percent of the affected boiler(s) energy (e.g., steam, hot water, process heat, or electricity) production, as applicable, will be evaluated to identify energy savings opportunities, within the limit of performing an 8-hour on-site energy assessment.

[40 CFR 63.7500(a)(1), Table 3]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in <u>k. through 1.</u> are not met.

Recordkeeping Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.7555]

- m. The Permittee shall keep the following:
 - i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

[40 CFR 63.7555(a)(1)]

- ii. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (A) through (C) below:
 - (A) The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the adjustments of the source;
 - (B) A description of any corrective actions taken as a part of the combustion adjustment; and
 - (C) The type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

[40 CFR 63.7540(a)(10)(vi)]

- iii. The associated records for conditions f. through l. including the occurrence and duration of each malfunction of operation (i.e., process equipment) or the required air pollution control and monitoring equipment.

 [40 CFR 63.10(b)(2)(ii)]
- iv. maintain records of the calendar date, time, occurrence and duration of each startup and shutdown. [40 CFR 63.7555(i)]
- v. maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown. [40 CFR 63.7555(j)]
- n. The Permittee shall:
 - i. maintain records in a form suitable and readily available for expeditious review;
 - ii. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
 - iii. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.

[40 CFR 63.7560, 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained per conditions m. through n.

Reporting Requirements [15A NCAC 02Q .0508(f)]

- o. In lieu of a 1-year reporting requirement pursuant to 40 CFR 63.7550(b), the Permittee has elected to submit compliance reports to the DAQ on a semi-annual basis. The Permittee shall submit the compliance report postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June.
 - i. The first report shall cover the period beginning on January 31, 2016 and shall be postmarked on or before July 30, 2016.
 - ii. These reports must also be submitted electronically through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report the Permittee submit the report to the at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.7550(h)(3)]
 - A. The Permittee may submit the CDX report in condition o.ii. above on a 1-year basis as allowed pursuant to 40 CFR 63.7550(b).
- p. The compliance report must contain the following information:
 - i. Company name and address;

- ii. Process unit information, emissions limitations, and operating parameter limitations;
- iii. Date of report and beginning and ending dates of the reporting period;
- iv. The total operating time during the reporting period;
- iv. If there are no deviations from the requirements of the work practice requirements in condition g. above, a statement that there were no deviations from the work practice standards during the reporting period; and
- v. Include the date of the most recent tune-up for each unit required to conduct an annual tune-up according to condition g. Include the date of the most recent burner inspection if it was not done annually and was delayed until the next scheduled or unscheduled unit shutdown.

[40 CFR 63.7550(a) and (c), Table 9]

- q. If there is a deviation from a work practice standard during the reporting period, the report must contain the following information:
 - i. A description of the deviation and which emission limit or operating limit from which you deviated; and
 - ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.

[40 CFR 63.7550(a) and (d), 63.7540(b), Table 9]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in o. through q. are not met.

F. Laminating Mill:

Table 2.1.F

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Laminator Mill			
3593 and 3594	Two (2) Short Cycle Laminating Presses	CD-3593	Reverse flow bagfilter (Maximum air-to-cloth ratio of 4.1 ACFM/total filter surface area).
Pr-Heat1	Natural gas-fired hot oil heater (4.7 million Btu per hour heat input) used with short cycle laminating presses	N/A	NA

The following table provides a summary of limits and/or standards for the material handling sources.

Regulated Pollutant	Limits/Standards	Applicable Regulation
	Affected source: (ID No. Pr-Heat1) 0.60 pounds per million Btu heat input	15A NCAC 02D .0503
РМ	Affected source: (ID Nos. 3593 and 3594) $E = 4.10P^{0.67}$ where; $E =$ allowable emission rate in pounds per hour $P = \text{process weight in tons per hour}$	15A NCAC 02D .0515
Sulfur dioxide	Affected source: (ID No. Pr-Heat1) 2.3 pounds per million Btu heat input	15A NCAC 02D .0516
Visible emissions	20 percent opacity	15A NCAC 02D .0521
HAPs	Affected source:(ID No. Pr-Heat1) Best Combustion Practices	15A NCAC 02D .1109
VOCs	Work Practice Standards See Section 2.2 A.1.	15A NCAC 02D .0958
Odors	See Section 2.2 A.2; STATE ENFORCEABLE ONLY	15A NCAC 02D .1806

1. 15A NCAC 02D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of natural gas from the hot oil heater (**ID No. Pr-Heat1**) into the atmosphere shall not exceed 0.60 pounds per million Btu heat input.

Testing [15A NCAC 02D .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test exceed the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

c. No monitoring, record keeping, or reporting is required for particulate emissions from the firing of No. 2 fuel oil and natural gas in the hot oil heater (**ID No. Pr-Heat1**).

2. 15A NCAC 02D .0515: PARTICULATE EMISSIONS FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from the units in the short cycle laminating presses (**ID Nos. 3593 and 3594**) that are discharged into the atmosphere shall not exceed an allowable emission rate as calculated by the following equations:

Process Rate	Allowable Emission Rate Equation
Less than or equal to 30 tons per hour	$E = 4.10 \text{ x P}^{0.67}$

Process Rate	Allowable Emission Rate Equation
Greater than 30 tons per hour	$E = 55.0(P)^{0.11} - 40$

Where E = allowable emission rate in pounds per hour

P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of the test performed exceed the limits given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. Particulate matter emissions from the short cycle laminating presses (ID Nos. 3593 and 3594) shall be controlled using the reverse flow bagfilter (ID No. CD-3593). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
 - i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
 - ii. an annual (for each 12 month period following the initial inspection) internal inspection of the bagfilter's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if the ductwork and bagfilters are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) onsite and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0515 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

- e. The Permittee shall submit the results of any maintenance performed on the bagfilter (**ID No. CD-3593**) within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Sulfur dioxide emissions from the hot oil heater (**ID No. Pr-Heat1**) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

<u>Testing</u> [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. No monitoring, record keeping, or reporting is required for sulfur dioxide emissions from the firing of natural gas in the hot oil heater (**ID No. Pr-Heat1**).

4. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from the sources listed in Table 2.1.F. shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of the test performed exceed the limits given in condition a. (above) for visible emissions, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. To ensure compliance, the Permittee shall observe, on a weekly basis, the following emission points in the Particleboard mill for any visible emissions above normal:

Emission Source	Emission Point ID No.
short cycle laminating presses (ID Nos. 3593 and 3594)	CD-3593

The weekly observation must be made for each of the calendar year period to ensure compliance with this requirement. If visible emissions from the short cycle laminating presses are observed to be above normal, the Permittee shall either:

- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
- ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2610 (Method 9) for 12 minutes is below the limit given in condition a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

- d. The results of the monitoring for visible emissions shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. To ensure quality, entries in the logbook should be signed by personnel responsible for the effective operation of the units in the particleboard mill and their air pollution control devices. The logbook shall record the following:
 - i. The date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of monitoring and record keeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

5. 15A NCAC 02D .1109: Case-by-Case MACT

- a. The Permittee shall use best combustion practices when operating the affected heater (**ID No. Pr-Heat1**). The initial compliance date for this work practice standard and the associated monitoring, recordkeeping, and reporting requirements is **October 18, 2013**. These conditions need not be included on the annual compliance certification until after the initial compliance date.
 - i. The Permittee shall comply with this CAA §112(j) standard until **May 19, 2019**. The initial compliance date for the applicable CAA §112(d) standard for "National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters" is **May 20, 2019**, as specified in Section 2.1.F.6. below.

Monitoring/Recordkeeping

b. To assure compliance, the Permittee shall perform an annual boiler inspection and maintenance as

recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:

- i. Inspect the burner, and clean or replace any components of the burner as necessary;
- ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and.
- iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.

The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if the affected heater is not inspected and maintained as required above.

- c. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) onsite and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date of each recorded action;
 - ii. The results of each inspection; and,
 - iii. The results of any maintenance performed on the heater.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1109 if these records are not maintained.

Reporting [15A NCAC 02Q .0508(f)]

d. No reporting is required.

6. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.7485, .7490(d), .7499(l)]

- a. For the heater (ID No. Pr-Heat1) (an existing source designed to burn gas 1 fuels with a heat input capacity of less than or equal to 5 million Btu per hour), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDDD, "National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters" and Subpart A "General Provisions."
 - i. The Permittee shall comply with the CAA §112(j) standard in <u>Section 2.1.F.5.</u> through **May 19, 2019**. The Permittee shall be subject to the requirements of this standard starting May 20, 2019. Note that the requirements of this standard may require action on behalf of the Permittee prior to May 20, 2019.

Definitions and Nomenclature [40 CFR 63.7575]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.7575 shall apply.

40 CFR Part 63 Subpart A General Provisions [40 CFR 63.7565]

c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources as identified in Table 10 to 40 CFR Part 63, Subpart DDDDD.

Compliance Date [40 CFR 63.7510(e), 63.56(b)]

d. The Permittee shall complete the initial tune up and the one-time energy assessment no later than May 20, 2019.

Notifications [40 CFR 63.7545(e)(8), 63.7530(e),(f)]

- e. The Permittee shall submit a Notification of Compliance Status. The notification must be signed by a responsible official and sent before the close of business on the 60th day following the completion of the initial tune up and one time energy assessment (whichever is later). The notification shall contain the following:
 - i. A description of the affected unit(s) including identification of which subcategories the unit is in, the design heat input capacity of the unit, and description of the fuel(s) burned.
 - ii. the following certification(s) of compliance, as applicable:

- A.- "This facility completed the required initial tune-up for all of the boilers and process heaters covered by 40 CFR 63 Subpart DDDDD at the site according to the procedures in.40 CFR 63.7540(a)(10)(i) through (vi)' [i.e., conditions g.i. through g.v. and l. ii.]; and
- B.- "This facility has had an energy assessment performed according to 40 CFR 63.7530(e)" [i.e., condition k.] and is an accurate depiction of the facility at the time of the assessment.

General Compliance Requirements [40 CFR 63.7505(a), 63.7500(f)]

f. The Permittee shall be in compliance with the work practice standards in this subpart. These standards apply at all times the affected unit is operating.

Work Practice Standards [15A NCAC 02Q .0508(f)]

- g. The Permittee shall conduct a tune-up of the process heater every five years as specified below.
 - i. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled or unscheduled unit shutdown, but the burner must be inspected at least once every 72 months
 - ii. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
 - iii. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown)'
 - iv. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any NO_X requirement to which the unit is subject.
 - v. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

[40CFR 63.7500(a), (e), 63.7540(a)(10), (a)(12)]

- h. Each 5-year tune-up shall be conducted no more than 61 months after the previous tune-up. [40CFR 63.7515(d)]
- i. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 calendar days of startup. [40 CFR 63.7540(a)(13), 63.7515(g)]
- j. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.7500(a)(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in <u>f. through</u> <u>j.</u> are not met.

Energy Assessment Requirements [15A NCAC 02Q .0508(f)]

k. The Permittee shall have a one-time energy assessment performed by a qualified energy assessor. The energy assessment must address the requirements in 40 CFR 63 Subpart DDDDD, Table 3, with the extent of the evaluation for items (a) to (e) in Table 3 appropriate for the on-site technical hours listed in §63.7575: [§63.7500(a)(1), Table 3]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in condition k, are not met.

Recordkeeping Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.7555]

- 1. The Permittee shall keep the following:
 - i. A copy of each notification and report submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status, or semiannual compliance report that has been submitted, according to the requirements in 40 CFR 63.10(b)(2)(xiv).

[40 CFR 63.7555(a)(1)]

ii. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information

in paragraphs (A) through (C) below:

- A. The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the adjustments of the source;
- B. A description of any corrective actions taken as a part of the combustion adjustment; and
- C. The type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

[40 CFR 63.7540(a)(10)(vi)]

- iii. The associated records for conditions f. through l. including:
 - A. the occurrence and duration of each malfunction of operation (i.e., process equipment) or the required air pollution control and monitoring equipment.

[40 CFR 63.10(b)(2)(ii)]

- iv. maintain records of the calendar date, time, occurrence and duration of each startup and shutdown. [40 CFR 63.7555(i)]
- v. maintain records of the type(s) and amount(s) of fuels used during each startup and shutdown. [40 CFR 63.7555(j)]

m. The Permittee shall:

- i. maintain records in a form suitable and readily available for expeditious review;
- ii. keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record; and
- iii. keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee can keep the records offsite for the remaining 3 years.

[40 CFR 63.7560, 63.10(b)(1)]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained as described in conditions l. through m.

Reporting Requirements [15A NCAC 02Q .0508(f)]

- n. The Permittee shall submit compliance reports to the DAQ on a 5-year basis. The first report shall cover the period beginning on the compliance date specified in condition d. and ending on the earliest December 31st following a complete 5-year period. Subsequent 5-year reports shall cover the periods from January 1 to December 31. The Permittee shall submit the compliance reports postmarked on or before January 31. [40 CFR 63.7550(a), (b)]
 - i. This report must also be submitted electronically through the EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due the report the Permittee submit the report to the at the appropriate address listed in 40 CFR 63.13. [40 CFR 63.7550(h)(3)]
- o. The compliance report must contain the following information:
 - Company name and address;
 - ii. Process unit information, emissions limitations, and operating parameter limitations;
 - iii. Date of report and beginning and ending dates of the reporting period;
 - iv. The total operating time during the reporting period;
 - iv. If there are no deviations from the requirements of the work practice requirements in condition g. above, a statement that there were no deviations from the work practice standards during the reporting period; and
 - v. Include the date of the most recent tune-up for each unit required according to condition g. Include the date of the most recent burner inspection if it was not done as scheduled and was delayed until the next scheduled or unscheduled unit shutdown.

[40 CFR 63.7550(a) and (c), Table 9]

p. If you have a deviation from a work practice standard during the reporting period, the report must contain the

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following information:

- i. A description of the deviation and which emission limit or operating limit from which you deviated; and
- ii. Information on the number, duration, and cause of deviations (including unknown cause), as applicable, and the corrective action taken.

[40 CFR 63.7550(a) and (d), 63.7540(b), Table 9]

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in n. through p. are not met.

G. Reserved

H. Reserved



I. The following combustion source:

Table 2.1.I.

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-21 MACT ZZZZ	Diesel Fuel -fired Emergency Generator(1592 Brake Horsepower output)	NA	NA

The following table provides a summary of limits and/or standards for the emission sources above:

Regulated Pollutant	Limits/Standards	Applicable Regulation			
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 02D .0516			
Visible emissions	20 percent opacity	15A NCAC 02D .0521			
HAPs	Maximum Achievable Control Technology	15A NCAC 02D .1111 [40 CFR Part 63, Subpart ZZZZ]			
Odors	STATE ENFORCEABLE ONLY See Section 2.2 A.2.	15A NCAC 02D .1806			

1. 15A NCAC 02D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from this source shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

 No monitoring/recordkeeping/reporting is required for visible emissions from the firing of diesel fuel in this source.

2. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from this source shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ found in Section 3. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

 No monitoring/recordkeeping is required for sulfur dioxide emissions from the firing of diesel fuel in this source.

3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.6585, 63.6590(a)(1)(i)]

a. For this emission source (existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ "National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

Stationary RICE subject to limited requirements [40 CFR 63.6590(b)]

b. Pursuant to 40 CFR 63.6590(b)(3)(iii), these sources do not have to meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A, including initial notification requirements.



2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide affected emission sources

The following table provides a summary of limits and standards applicable facility wide:

Regulated Pollutant	Limits/Standards	Applicable Regulation		
VOCs	Work Practice Standards	15A NCAC 02D .0958		
odors	Odorous emissions must be controlled STATE ENFORCEABLE ONLY	15A NCAC 02D .1806		
HAPs	National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products	15A NCAC 02D .1111 (40 CFR 63, Subpart DDDD)		

1. 15A NCAC 02D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

- a. Pursuant to 15A NCAC 02D .0958 and 02D .0902, for all sources that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture VOCs, or emit VOCs as a product of chemical reactions; the Permittee shall:
 - i. store all material, including waste material, containing VOCs in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - ii. clean up spills of VOCs as soon as possible following proper safety procedures,
 - iii. store wipe rags containing VOCs in closed containers,
 - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with VOCs,
 - v. transfer solvents containing VOCs used to clean supply lines and other coating equipment into close able containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act, and
 - vi. clean mixing, blending, and manufacturing vats and containers containing VOCs by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act.
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
 - i. flush parts in the freeboard area,
 - ii. take precautions to reduce the pooling of solvent on and in the parts,
 - iii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - iv. not fill cleaning machines above the fill line, and
 - v. not agitate solvent to the point of causing splashing.

Monitoring [15A NCAC 02Q .0508(f)]

c. To ensure compliance with this standard, the Permittee shall, at a minimum, perform a monthly visual inspection of all operations and processes utilizing VOCs. The inspection shall include, but not be limited to, VOC storage, cleaning, and transfer operations to determine compliance with the requirements specified in conditions a. and b. above. The inspections shall be conducted during normal operations. If the required monthly inspections are not conducted the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0958.

Recordkeeping [15A NCAC 02Q .0508(f)]

- d. The results of the inspections shall be maintained in a log (written or electronic format) on-site and made available to an authorized representative upon request. The log shall record the following:
 - i. the date and time of each inspection; and
 - ii. the results of each inspection noting whether or not noncompliant conditions were observed.

If the required records are not maintained the permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0958.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

STATE ENFORCEABLE ONLY

2. 15A NCAC 02D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

a. The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.



3. 15A NCAC 02D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

- a. For the emission sources subject to "MACT DDDD" as indicated in the permitted equipment list, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart DDDD, National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products.
 - i. The Permittee shall submit a permit application with the Notification of Compliance Status required in condition x. below to revise the permit to include monitoring parameters for the biofilter (ID NO. CD18).

Definitions and Nomenclature [40 CFR 63.2292]

b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR 63.2292 shall apply.

40 CFR Part 63 Subpart A General Provisions [40 CFR 63.2290]

c. The Permittee shall comply with the requirements of 40 CFR 63 Subpart A General Provisions according to the applicability of Subpart A to such sources, as identified in Table 10 to 40 CFR Part 63, Subpart DDDD

Operating Requirements [15A NCAC 02Q .0508(f)]

- d. For the emission sources subject to "MACT DDDD" as indicated in the permitted equipment list the Permittee shall comply with compliance options and operating requirements described in Tables 1A, 1B, and 2 to 40 CFR 63 and in paragraph 40 CFR 63.2240 (c) by using one or more of the compliance options listed in paragraphs (a), (b), and (c) of 40 CFR 63.2240 for each process unit. [40 CFR 63.2240]
- e. The Permittee must always operate and maintain the affected source, including air pollution control and monitoring equipment, according to the provisions in 40 CFR 63.6(e)(1)(i). [40 CFR 63.2250(b)]
- f. The Permittee must develop a written Startup, Shutdown, and Malfunction Plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). [40 CFR 63.2250(c)]
- g. To the extent practical, startup and shutdown of emission control systems must be scheduled during times when process equipment is also shut down. [40 CFR 63.2251(e)]
 The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the operating requirements in d. through g. are not met.

Work Practice Requirements [15A NCAC 02Q .0508(f)]

h. The Permittee shall meet each work practice requirement per 40 CFR 63.2241, as applicable. [40 CFR 63.2241] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the work practice requirements in condition h. are not met.

Affected Sources Not Subject to Operating Requirements [40 CFR 63.2252]

i. For process units not subject to the operating requirements in paragraph (d) through (g), The Permittee is not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this 40 CFR 63 Subpart DDDD, or any other requirements in 40 CFR 63 Subpart A except for the initial notification requirements in 40 CFR 63.9(b).

Testing [15A NCAC 02D .2601]

j. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limits given in paragraph d. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .1112.

Initial Compliance requirements [15A NCAC 02D .2601, 40 CFR 63.2260 through 40 CFR 63.2269]

- k. To demonstrate initial compliance with the compliance options and operating requirements, the Permittee must conduct performance tests and establish each site-specific operating requirement in Table 2 to 40 CFR 63 Subpart DDDD according to the requirements in 40CFR 63.2262 and Table 4 to 40 CFR 63 Subpart DDDD. Combustion units that accept process exhausts into the flame zone are exempt from the initial performance testing and operating requirements for thermal oxidizers.
- 1. The Permittee must demonstrate initial compliance with each compliance option, operating requirement, and work practice requirement that applies to the Permittee according to Tables 5 and 6 to 40 CFR 63 Subpart DDDD and according to 40 CFR 63.2260 through 40 CFR 63.2269.
- m. The Permittee shall conduct performance tests no later than 180 calendar days after initial startup or no later

- than 180 calendar days after the compliance date that is specified for your source in 40 CFR63.2233 and according to 40 CFR 63.7(a)(2), whichever is later.
- n. The Permittee shall conduct initial compliance demonstrations that do not require performance tests upon initial startup or no later than 30 calendar days after the compliance date that is specified for your source in 40 CFR 63.2233, whichever is later. The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the initial compliance requirements in conditions k. through n. are not met.

Monitoring and Continuous Compliance Requirements [15A NCAC 02Q .0508(f)]

- o. The Permittee shall monitor and collect data according to 40 CFR 63.2270.
- p. The Permittee shall demonstrate continuous compliance with the compliance options, operating requirements, and work practice requirements in 40CFR 63.2240 and 63.2241 that apply according to the methods specified in Tables 7 and 8 to 40 CFR 63 Subpart DDDD.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the requirements in conditions o. and p. are not met.

Recordkeeping Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.2282 and .2283]

- q. The Permittee must keep the records listed in 40 CFR 63.2282(a).
- r. The Permittee must keep the records required in Tables 7 and 8 to 40 CFR 63 Subpart DDDD to show continuous compliance with each compliance option, operating requirement, and work practice requirement that applies.[40CFR 63.2282(b)]
- s. The Permittee must maintain records in a form suitable and readily available for expeditious review as specified in 40 CFR 63.10(b)(1). [40 CFR 63.2283(a)]
- t. As specified in 40 CFR 63.10(b)(1), the Permittee must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR 63.2283(b)]
- u. The Permittee must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to 40 CFR 63.10(b)(1). The Permittee can keep the records offsite for the remaining 3 years. [40 CFR 63.2283(c)]
 - The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if records are not maintained per conditions q. through u.

Notification Requirements [40 CFR 63.2280]

- v. The Permittee must submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9 (b) through (e), and (g) and (h) by the dates specified. [40 CFR 63.2280(a)]
- w. If you are required to conduct a performance test, you must submit a written notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as specified in §63.7(b)(1).
- x. If you are required to conduct a performance test, design evaluation, or other initial compliance demonstration as specified in Tables 4, 5, and 6 to 40 CFR 63 Subpart DDDD, you must submit a Notification of Compliance Status as specified in 40 CFR 63.9(h)(2)(ii).
 - i. For each initial compliance demonstration required in Table 5 or 6 to 40 CFR 63 Subpart DDDD that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.
 - ii. For each initial compliance demonstration required in Tables 5 and 6 to 40 CFR 63 Subpart DDDD that includes a performance test conducted according to the requirements in Table 4 to 40 CFR 63 Subpart DDDD, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to 40 CFR 63.10(d)(2).
- y. If you use the emissions averaging compliance option in 40 CFR 63.2240(c), you must submit an Emissions Averaging Plan to the EPA Administrator for approval no later than 1 year before the compliance date or no later than 1 year before the date you would begin using an emissions average, whichever is later. The Emissions Averaging Plan must include the information in 40 CFR 63.2280(f).
- z. The Permittee must notify the EPA Administrator within 30 days before any of the following actions are taken: [40 CFR 63.2280(g)]
 - i. The modification or replacement the control system for any process unit subject to the compliance options and operating requirements in paragraph (d).
 - ii. The shut down of any process unit included in the Emissions Averaging Plan.
 - iii. The change in a continuous monitoring parameter or the value or range of values of a continuous

monitoring parameter for any process unit or control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the notification requirements in conditions v. through z. are not met.

Reporting Requirements [15A NCAC 02Q .0508(f), 40 CFR 63.2281]

- aa. The permittee shall submit a compliance report semiannually postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June [40 CFR 63.2281(b)(5)]
- bb. The compliance report must contain the information in 40 CFR 63.2281(c).
- cc. For each deviation from a compliance option or operating requirement and for each deviation from the work practice requirements in Table 8 to 40 CFR 63 Subpart DDDD that occurs at an affected source where you <u>are not using a CMS</u> to comply with the compliance options, operating requirements, or work practice requirements in this subpart, the compliance report must contain the information in 40 CFR 63.2281(c)(1) through (6) and (d)(1) and (2). This includes periods of startup, shutdown, and malfunction and routine control device maintenance. [40 CFR 63.2281(d)]
- dd. For each deviation from a compliance option or operating requirement occurring at an affected source where you are using a CMS to comply with the compliance options and operating requirements in 40 CFR 63 Subpart DDDD, you must include the information 40 CFR 63.2281(c)(1) through (6) and paragraphs (e)(1) through (11). This includes periods of startup, shutdown, and malfunction and routine control device maintenance. [40 CFR 63.2281(e)]
- ee. If you comply with the emissions averaging compliance option in 40 CFR 63.2240(c), you must include in your semiannual compliance report calculations based on operating data from the semiannual reporting period that demonstrate that actual mass removal equals or exceeds the required mass removal. [40 CFR 63.2281(f)] The Permittee shall be deemed in noncompliance with 15A NCAC 02D .1111 if the reporting requirements in aa. through ee. are not met

B. Medium Density Fiberboard Facilities

1. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 02D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. In order to the avoid the applicability of 15A NCAC 02D .0530, the combined emissions from the sources indicated in the permitted equipment list in Section 1 as the Medium Density Fiberboard Facilities (MDF sources) shall not exceed the following limits:
 - i. Nitrogen oxide emissions shall not exceed 177.8 tons per consecutive 12-month.
 - ii. VOC emissions shall not exceed 337 tons per consecutive 12-month period.
 - iii. PM-2.5 emissions shall not exceed 111.9 tons per consecutive 12-month period.
 - iv. PM-10 emissions shall not exceed 116.9 tons per consecutive 12-month period.

Testing [15A NCAC 02Q .0508(f)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ.
 - i. Under the provisions of NCGS 143-215.108, the Permittee shall test the biofilter (ID No CD18) to establish emission factors to be used for purposes of condition d. and e. below. Testing shall be completed within 180 days after the start-up of the biofilter (ID No. CD18). Testing shall be conducted in scenarios that represent worst-case emissions. The Permittee shall submit a written report of the test(s) results to the Regional Supervisor, DAQ within 60 days of completion of the test. The Permittee shall be deemed in noncompliance with 15A NCAC 02Q .0530 if these requirements are not met.

Monitoring 15A NCAC 02Q .0508(f)]

- c. The Permittee shall maintain a minimum urea/water solution (45% urea concentration by volume) injection rate of 0.24 gpm (3-hour block average) (ID No. CD02-A). If the Permittee conducts source testing such that the NOx emission factor listed in Table 2.2.B.1 was revaluated at a different injection rate or urea concentration, the Permittee shall, upon approval by the DAQ, attach the approval memo containing the revised operating parameters to this permit and maintain the parameters in the associated operating ranges contained therein.
- d. The Permittee shall calculate on a monthly basis the monthly and rolling 12-month total for each of the nitrogen oxides, VOC, PM10 and PM2.5 emissions from the MDF sources.
- e. For purposes of condition d. the Permittee shall utilize the following emission factors in Table 2.2.B.1 below. If the Permittee conducts source testing that results in any emission factors greater than those in Table 2.2.B.1, the Permittee shall, upon approval by the DAQ, attach the approval memo containing the revised emission factors to this permit and use those factors in place of the respective emission factors in Table 2.2.B.1.

The Permittee shall be deemed in noncompliance with 15A NCAC 02Q .0530 if the requirements in condition c through e. are not met.

Table 2.2.B.1

Emission	Donatation	PM-10		PM-2.5		VOC		NOx	
Point	Description	EF	Units	EF	Units	EF	Units	EF	Units
EP-01	Refiner Abort Cyclone	3.52	lb/hr	3.52	lb/hr	NA	NA	NA	
EP-03	Fiber Sifter System Filter		lb/hr	0.58	lb/hr	0.082	lb/ODT	NA	
EP-04	Forming Line Clean-Up Filter		lb/hr	0.55	lb/hr	0.082	lb/ODT	NA	
EP-05	Mat reject system Filter		lb/hr	0.48	lb/hr	0.082	lb/ODT	NA	
EP-07	Saw System Filter		lb/hr	0.84	lb/hr	0.01	lb/MSF	NA	
EP-08	Sander System No. I Exhaust Filter	0.90	lb/hr	0.9	lb/hr	0.01	lb/MSF	NA	
EP-09	Recycled Fiber Silo No. I Filter	0.02	lb/hr	0.02	lb/hr	0.082	lb/ODT	NA	
EP-10	Sander System No.2 Exhaust Filter	0.45	lb/hr	0.45	lb/hr	0.01	lb/MSF	NA	
EP-12	Sander Dust Silo No. I Filter	0.02	lb/hr	0.02	lb/hr	0.268	lb/ODT	NA	
EP-13	Dry Sawdust Silo Filter	0.02	lb/hr	0.02	lb/hr	0.268	lb/ODT	NA	
EP-15	Recycled Fiber Silo No. 2 Filter	0.02	lb/hr	0.02	lb/hr	0.082	lb/ODT	NA	
EP-17	Sander Dust Silo No. 2 Filter	0.02	lb/hr	0.02	lb/hr	0.268	lb/ODT	NA	
EP-18/19/20	N.G. Combustion	7.45E- 03	lb/MMBtu	7.45E- 03	lb/MMBtu	5.39E- 03	lb/MMBtu	0.098	lb/MMBtu
ES-02-A	Energy System Abort (50/50 dry/wet fuel)	0.5	lb/MMBtu	0.43	lb/MMBtu	0.017	lb/MMBtu	0.33	lb/MMBtu
ES-02-A	Energy System Abort (dry fuel)	0.36	lb/MMBtu	0.31	lb/MMBtu	0.017	lb/MMBtu	0.33	lb/MMBtu
EP-16	Press Scrubber	0.088	lb/MSF	0.088	lb/MSF	0.042	lb/MSF	NA	
EP-02/14	Dryer scrubber (SW)	0.51	lb/ODMT	0.51	lb/ODMT	4.41	lb/ODMT	0.33	lb/MMBtu
EP-02/14	Dryer scrubber (SW/HW)	0.51	lb/ODMT	0.51	lb/ODMT	1.67	lb/ODMT	0.33	lb/MMBtu
EP-16	Press Scrubber (CDMDT)	0.088	lb/MSF	0.088	lb/MSF	0.34	lb/MSF	NA	
EP-02/14	Dryer scrubber (SW)(CDMDT)	0.51	lb/ODMT	0.51	lb/ODMT	5.76	lb/ODMT	0.33	lb/MMBtu
EP-02/14	Dryer scrubber (SW/HW)(CDMDT)	0.51	lb/ODMT	0.51	lb/ODMT	2.00	lb/ODMT	0.33	lb/MMBtu

SW – softwood only processing SW/HW – softwood and hardwood processing

CDMDT – Control Device Maintenance Downtime, MACT Subpart DDDD, CD02-2, CD14-2, CD16-2

Recordkeeping 15A NCAC 02Q .0508(f)]

- f. The Permittee shall keep the following records in a logbook (written or electronic format):
 - i. the 3-hour block averages of the urea/water injection rate (ID No. CD02-A);
 - ii. the monthly and rolling 12-month total for each of the nitrogen oxides, VOC, PM10 and PM2.5 emissions from the MDF sources; and
 - iii. the process rates of the dryers in ODMT/hr, the process rates of the press in MSF/hr; and the heat inputs for the combustion sources in MMBtu/hr. These values may be calculated on a monthly average basis.

The Permittee shall be deemed in noncompliance with 15A NCAC 02Q .0530 if the requirements in condition f. are not met.

Reporting [15A NCAC 02Q .0508 (f)]

- g. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. a summary of the 3-hour block averages of the urea/water injection rate (ID No CD02-A); and
 - ii. the monthly and rolling 12-month total for each of the nitrogen oxides, VOC, PM10 and PM2.5 emissions from the MDF sources. The 12 month rolling totals shall be calculated for each of the previous 17 months.

2.3- Permit Shield for Non-Applicable Requirements

The Permittee is shielded from the following non-applicable requirements [15A NCAC 02Q .0512(a)(1)(A) and (B)].

A. New Source Performance Standard (NSPS) Subpart Db is not applicable to the bio-mass fired Energy System (ID No. ES-02A) because the system is considered a process heater and the primary purpose is to produce a final product.



SECTION 3 - GENERAL CONDITIONS (version 4.0 12/17/15)

This section describes terms and conditions applicable to this Title V facility.

A. General Provisions [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]

- Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02O.
- 2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
- 3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
- 4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
- 5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
- 6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. Severability Clause [15A NCAC 02Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance North Carolina Division of Air Quality 1641 Mail Service Center Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02O .0508(i)(3)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. <u>Circumvention</u> - <u>STATE ENFORCEABLE ONLY</u>

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. Permit Modifications

- 1. Administrative Permit Amendments [15A NCAC 02Q .0514]
 - The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
- Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
 The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
- 3. Minor Permit Modifications [15A NCAC 02Q .0515]
 - The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
- 4. Significant Permit Modifications [15A NCAC 02Q .0516]
 - The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
- 5. Reopening for Cause [15A NCAC 02Q .0517]
 - The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. Changes Not Requiring Permit Modifications

1. Reporting Requirements

Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:

- a. changes in the information submitted in the application;
- b. changes that modify equipment or processes; or
- c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]

- a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
- b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
 - i. the changes are not a modification under Title I of the Federal Clean Air Act;
 - ii. the changes do not cause the allowable emissions under the permit to be exceeded;
 - iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
 - iv. the Permittee shall attach the notice to the relevant permit.
- c. The written notification shall include:
 - i. a description of the change;
 - ii. the date on which the change will occur;
 - iii. any change in emissions; and
 - iv. any permit term or condition that is no longer applicable as a result of the change.
- Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
- 3. Off Permit Changes [15A NCAC 02Q .0523(b)]

The Permittee may make changes in the operation or emissions without revising the permit if:

- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
- b. the change is not covered under any applicable requirement.
- 4. Emissions Trading [15A NCAC 02Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A Reporting Requirements for Excess Emissions and Permit Deviations [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)] "Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. (Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)

"Deviations" - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

- 1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
- 2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
 - a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

- 3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B Other Requirements under 15A NCAC 02D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

- Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate
 rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a
 malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A
 NCAC 02D .0535(c)(1) through (7).
- 2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. <u>Emergency Provisions</u> [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the
facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and
that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases
in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by
improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

- 2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
- 3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
- 4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- 5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. Permit Renewal [15A NCAC 02Q .0508(e) and 02Q .0513(b)]

This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. Need to Halt or Reduce Activity Not a Defense [15A NCAC 02Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. <u>Duty to Provide Information (submittal of information)</u> [15A NCAC 02Q .0508(i)(9)]

- 1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
- 2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 020 .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. Retention of Records [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. Compliance Certification [15A NCAC 02Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall

comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

- 1. the identification of each term or condition of the permit that is the basis of the certification;
- 2. the compliance status (with the terms and conditions of the period covered by the certification);
- 3. whether compliance was continuous or intermittent; and
- 4. the method(s) used for determining the compliance status of the source during the certification period.

Q. Certification by Responsible Official [15A NCAC 02Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. Permit Shield for Applicable Requirements [15A NCAC 02Q .0512]

- Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
- 2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 - c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
- 3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02O .0523.
- 4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. Termination, Modification, and Revocation of the Permit [15A NCAC 02Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

- 1. the information contained in the application or presented in support thereof is determined to be incorrect;
- 2. the conditions under which the permit or permit renewal was granted have changed;
- 3. violations of conditions contained in the permit have occurred;
- 4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
- 5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. Insignificant Activities [15A NCAC 02Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. <u>Inspection and Entry</u> [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

- 1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit:
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

- 1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
- 2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
- 3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. Annual Emission Inventory Requirements [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. Confidential Information [15A NCAC 02Q .0107 and 02Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. Construction and Operation Permits [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. Standard Application Form and Required Information [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. Financial Responsibility and Compliance History [15A NCAC 02Q .0507(d)(4)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. Refrigerant Requirements (Stratospheric Ozone and Climate Protection) [15A NCAC 020 .0501(e)]

- 1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
- 2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
- 3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR \square 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. Prevention of Accidental Releases - Section 112(r) [15A NCAC 02O .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. <u>Prevention of Accidental Releases General Duty Clause - Section 112(r)(1)</u> – FEDERALLY-ENFORCEABLE ONLY Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. Title IV Allowances [15A NCAC 02Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. Air Pollution Emergency Episode [15A NCAC 02D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. Registration of Air Pollution Sources [15A NCAC 02D .0202]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. Ambient Air Quality Standards [15A NCAC 02D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. General Emissions Testing and Reporting Requirements [15A NCAC 02Q .0508(i)(16)]

Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

- 1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
- 2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
- 3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
- 4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.
 - a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
 - i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
 - ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
 - iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
 - b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

KK. Reopening for Cause [15A NCAC 02Q .0517]

- 1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- 2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
- 3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
- 4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
- 5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

MM. Fugitive Dust Control Requirement [15A NCAC 02D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. Specific Permit Modifications [15A NCAC 02Q.0501 and .0523]

- 1. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
- 2. For modifications made pursuant to 15A NCAC 02Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
- 3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the

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application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. Third Party Participation and EPA Review [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS Alternate Operating Scenario
BACT Best Available Control Technology

Btu British thermal unit CAA Clean Air Act

CAIR Clean Air Interstate Rule
CEM Continuous Emission Monitor
CFR Code of Federal Regulations

DAQ Division of Air Quality

DEQ Department of Environmental Quality
EMC Environmental Management Commission

EPA Environmental Protection Agency

FR Federal Register

GACT Generally Available Control Technology

HAP Hazardous Air Pollutant

MACT Maximum Achievable Control Technology

NAA Non-Attainment Area

NCAC North Carolina Administrative Code NCGS North Carolina General Statutes

NESHAP National Emission Standards for Hazardous Air Pollutants

NO_x Nitrogen Oxides

NSPS New Source Performance Standard OAH Office of Administrative Hearings

PM Particulate Matter

PM₁₀ Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less

POS Primary Operating Scenario

PSD Prevention of Significant DeteriorationRACT Reasonably Available Control Technology

SIC Standard Industrial Classification

SIP State Implementation Plan

SO₂ Sulfur Dioxide tpy Tons Per Year

VOC Volatile Organic Compound